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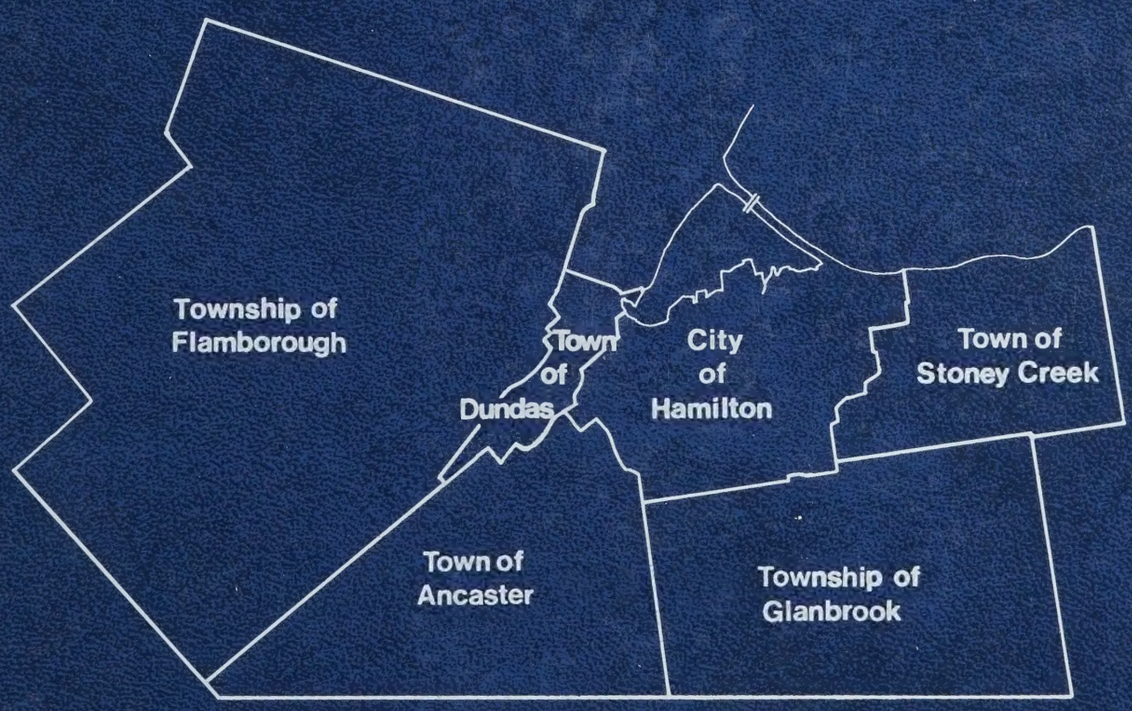
The Regional Municipality of Hamilton-Wentworth

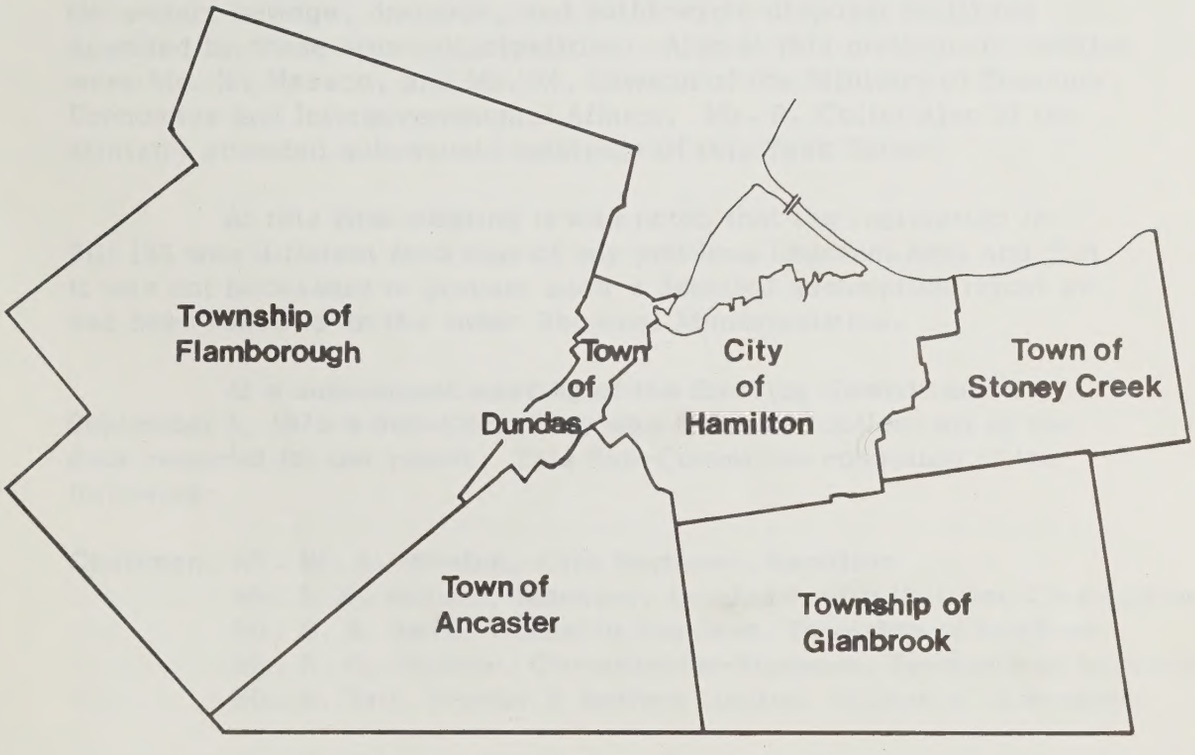
Report on the Initial Assumption, Operation and Financing of Regional Roads, Water, Sewage, Drainage and Solid Waste Disposal Works



December 1973

The Regional Municipality of Hamilton-Wentworth

Report on the Initial Assumption, Operation and Financing of Regional Roads, Water, Sewage, Drainage and Solid Waste Disposal Works



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14 December 1973

Mrs. Anne H. Jones, Chairman
and Members of Council of The
Regional Municipality of Hamilton-Wentworth

Report on
The Initial Assumption, Operation,
and Financing of Regional Roads,
Water, Sewage, Drainage and
Solid Waste Disposal Works

Ladies and Gentlemen:

On Monday, August 21, 1973 Mrs. Anne Jones, Chairman of the Regional Municipality of Hamilton-Wentworth called together an Engineering Services Task Force made up of the technical representatives of the area municipalities who were primarily interested in the water, sewage, drainage, and solid waste disposal facilities operated by these area municipalities. Also at this preliminary meeting were Mr. H. Hasson, and Mr. M. Lawson of the Ministry of Treasury, Economics and Intergovernmental Affairs. Mr. R. Colter also of the Ministry attended subsequent meetings of this Task Force.

At this first meeting it was noted that the legislation in Bill 155 was different from that of any previous Regional Acts and that it was not necessary to prepare such a detailed assumption report as had been required in the other Regional Municipalities.

At a subsequent meeting of the Steering Committee on September 5, 1973 a Sub-Committee was formed to collect all of the data required for the report. This Sub-Committee consisted of the following:

Chairman, Mr. W. A. Wheten, City Engineer, Hamilton
Mr. J. S. Wilson, Manager, Dundas Public Utilities Commission
Mr. K. A. Amin, Township Engineer, Township of Saltfleet
Mr. R. G. Morrow, Co-ordinator-Engineer, Township of Ancaster
Mr. R. Tait, Proctor & Redfern Limited, Village of Waterdown

Mr. H. Hasson, Ministry of Treasury, Economics and Intergovernmental Affairs was later added to the Sub-Committee particularly as it related to the financial section of the report.

Mr. R. Tait, of Proctor & Redfern Limited, Consulting Engineers who sat on the Steering Committee and Sub-Committee as a representative of the Village of Waterdown was subsequently retained to co-ordinate the completion of the detailed inventories and to prepare the text of the report on behalf of the Sub-Committee. Mr. G. Yates of Yates and Yates was also retained as legal consultant to the Committee.

The extent of the report was further expanded to include the Regional Roads System as set out in Part III of Bill 155 and Mr. R. Fraser, County Engineer, was added to the Sub-Committee.

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The need for this report resulted from the formation of the Regional Municipality of Hamilton-Wentworth in the passage of Bill 155 in the Third Session of the 24th Legislature, Ontario, 22 Elizabeth II, 1973, in which the City of Hamilton, the Towns of Dundas and Stoney Creek, the Village of Waterdown, and the Townships of Ancaster, Beverly, Binbrook, East Flamborough, West Flamborough, Glanford and Saltfleet were organized into a Regional Corporation to be known as "The Regional Municipality of Hamilton-Wentworth" as of January 1, 1974. In this legislation the Regional Corporation was charged with assuming from the area municipalities complete responsibility for the supply and distribution of water, the collection and treatment of sewage and the receiving, dumping and disposal of all solid waste. The Regional Corporation was also charged with assuming from the area municipalities certain responsibility for land drainage and for assuming all roads under the jurisdiction and control of the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission.

This report provides direction and recommendations considered necessary in establishing the procedures to be set by the Regional Corporation in assuming its responsibilities with regard to roads, water, sewage, drainage, and solid waste disposal works.

The report has been set out in four main sections including:

(i) Assumption of Works
(ii) Organization and Operation of Works
(iii) Finance
(iv) Future Action

Preceeding the four main sections is a summary of the major recommendations which are outlined in greater detail in the respective sections of the report.

We wish to take this opportunity to express to the Regional Council out appreciation for the opportunity to be of service to the Regional Municipality of Hamilton-Wentworth and in particular our thanks to Mrs. A. H. Jones, Chairman and the many officials of the local municipalities for their efforts in assisting us with the preparation of this report.

All of which is respectfully submitted.

Yours very truly

W. A. Wheten, P. Eng.
Sub-Committee Chairman

R. Tait, P. Eng.
Proctor & Redfern Limited
Study Co-ordinator

The need for this report resulted from the formation of the Regional Municipality of Hamilton-Wentworth in the passage of Bill 153 in the Third Session of the 29th Legislature, Ontario, 22 Elizabeth II, 1973, in which the City of Hamilton, the Towns of Dundas and Stoney Creek, the Village of Waterdown, and the Townships of Ancaster, Beverly, Binbrook, East Flamborough, West Flamborough, Glanford and Saltfleet were organized into a Regional Corporation to be known as "The Regional Municipality of Hamilton-Wentworth" as of January 1, 1974. In this legislation the Regional Corporation was charged with assuming from the area municipalities complete responsibility for the supply and distribution of water, the collection and treatment of sewage and the recycling, dumping and disposal of all solid waste. The Regional Corporation was also charged with assuming from the area municipalities certain responsibility for land planning and for assuming all roads under the jurisdiction, and control of the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission.

This report provides direction and recommendations considered necessary to establishing the procedures to be followed by the Regional Corporation in assuming its responsibilities with respect to roads, water, sewage, drainage, and solid waste disposal matters.

The report has been carried out in four main stages, including:

(i) Assumption of Works
(ii) Organization and Operations of Works
(iii) Finance
(iv) Future Action

Preceding the four main sections, is a summary of the major recommendations which are contained in greater detail in the respective sections of the report.

We wish to take this opportunity to express to the Regional Council our appreciation for the opportunity to be of service to the Regional Municipality of Hamilton-Wentworth in preparing this report, and thanks to Mr. A. H. Jones, Director, Planning and Development and the local municipalities for their efforts in assisting in with the preparation of this report.

All of which is respectfully submitted.

Yours very truly

W. A. Wilson, P. Eng.
Sub-Committee Chairman

R. Hill, P. Eng.
Project & Master Limited
Study Co-ordinator

SUMMARY OF RECOMMENDATIONS

ASSUMPTION OF WORKS

(i) That the Regional Corporation assume all roads under the control and jurisdiction of the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission and that these roads form the regional roads system as set out in Bill 155.

(ii) That the Regional Corporation assume, operate and maintain all municipally owned waterworks in the area municipalities as set out in Bill 155.

(iii) That the Regional Corporation assume, operate and maintain all municipally owned sewage works in the area municipalities as set out in Bill 155.

(iv) That the Regional Corporation assume, operate and maintain all municipally owned solid waste disposal facilities in the area municipalities as set out in Bill 155.

(v) That the Regional Corporation assume, operate and maintain all storm sewers in the City of Hamilton as outlined in the Assumption By-Law No. 9-73.

(vi) That the City of Hamilton retain responsibility for the operation and maintenance of all catchbasins, catchbasin connections, ditches and culverts on the local roads under its jurisdiction.

(vii) That the area municipalities other than the City of Hamilton retain responsibility for the operation and maintenance of all drainage works including catchbasins, catchbasin connections, ditches, culverts and storm sewers on the local roads under their jurisdiction.

(viii) That the Regional Corporation establish a policy for considering the assumption of complex inter-municipal drainage problems when formally requested by an area municipality.

SUMMARY OF RECOMMENDATIONS

ASSUMPTION OF WORKS

(i) That the Regional Corporation assume all roads under the control and jurisdiction of the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission and that these roads form the regional roads system as set out in Bill 163.

(ii) That the Regional Corporation assume, operate and maintain all municipally owned waterworks in the area municipalities as set out in Bill 163.

(iii) That the Regional Corporation assume, operate and maintain all municipally owned sewage works in the area municipalities as set out in Bill 163.

(iv) That the Regional Corporation assume, operate and maintain all municipally owned solid waste disposal facilities in the area municipalities as set out in Bill 163.

(v) That the Regional Corporation assume, operate and maintain all storm sewers in the City of Hamilton as outlined in the Assumption By-law No. 7-73.

(vi) That the City of Hamilton retain responsibility for the operation and maintenance of all catchbasins, catchbasin connections, ditches and culverts on the local roads under its jurisdiction.

(vii) That the area municipalities other than the City of Hamilton retain responsibility for the operation and maintenance of all drainage works including catchbasins, catchbasin connections, ditches, culverts and storm sewers on the local roads under their jurisdiction.

(viii) That the Regional Corporation establish a policy for considering the assumption of complex inter-municipal drainage problems when formally requested by an area municipality.

(ix) That the Regional Corporation assume responsibility for the land drainage system including storm sewers with respect to Regional Roads as set out in Bill 155.

(x) That the Regional Corporation establish a policy relating to the improvements of drainage works under the jurisdiction of the regional Conservation Authorities.

(xi) That the Regional Corporation assume and operate the City of Hamilton laboratory presently housed in the Hamilton Sewage Treatment Plant which is also to be assumed by the Regional Corporation as set out in Bill 155.

(xii) That all "Works in Progress" related to water, sewage, and solid waste disposal by the area municipalities, storm sewers by the City of Hamilton and roads by the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission be assumed by the Regional Corporation as of January 1, 1974 for design, construction, operation and maintenance purposes. That in special cases the Regional Corporation consider contracting back to the area municipalities the responsibility for the completion of certain of these works.

(xiii) That the area municipalities continue to administer all subdivision agreements and that only in matters relating to waterworks and sewage works in these area municipalities and in addition to storm sewer works in the City of Hamilton should the Regional Corporation stand in the place and stead of the area municipality.

(xiv) That the following major works in area municipalities other than the City of Hamilton which are in the advanced planning or design phase and which could be considered as "Works in Progress" be assumed by the Regional Corporation at this time:

- the proposed sewer scheme in the Town of Ancaster

- the proposed elevated storage tank in the Village of Waterdown.
- the expansion of the Dundas Sewage Treatment Plant.

(xv) That the City of Hamilton be requested to prepare a detailed list of works which are in the advanced planning or design phase and which could be considered as "Works in Progress" and which will be assumed by the Regional Corporation at this time.

This detailed list should be completed and submitted to the Regional Corporation prior to December 31, 1973.

(xvi) That all area municipalities be requested to prepare a detailed list of all water, sewage, and solid waste disposal works which could be considered as "Works in Progesss" as of December 31, 1973.

In addition, that the City of Hamilton be requested to prepare a detailed list of all storm sewer works and that the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission be requested to prepare detailed lists of all storm drainage works and road works which could be considered as "Works in Progress" as of December 31, 1973.

These lists should be complete and should be submitted to the Regional Corporation prior to December 31, 1973. They should show full details of the status of the design, stage of construction, contract arrangements, financing and all other relevant information.

(xvii) That the following works either completed or under construction by private developers but not maintained or operated by the existing area municipalities should not be assumed by the

Regional Corporation at this time other than for standing in place and stead of such area municipality for the purpose of any agreement between the area municipality and the private developer.

- Well system in Lots 5, 6, and 7, Concession IX, Township of East Flamborough.

- Well system in Lot 13, Concession X, Township of East Flamborough.

- Well system in Cedar Knoll Survey, Greensville, in the Township of West Flamborough.

- Gardendale lagoon, pumping station and sewer system in the Gardendale Survey of the Township of Saltfleet.

OPERATION AND ORGANIZATION

(i) That on an interim basis all facilities being assumed by the Regional Corporation on January 1, 1974 continue as far as possible in their present method of operation but under the jurisdiction and control of the Commissioner of Engineering on behalf of the Regional Corporation.

(ii) That the Regional Corporation contract by separate agreement with the Ministry of the Environment on an interim basis for the operation and maintenance of the Waterdown Sewage Treatment Plant including sewage pumping stations.

(iii) That the Regional Corporation consider contracting back to the area municipalities or the Hydro Electric Commissions the meter reading and billing of water rates on an interim basis.

(iv) That the Regional Corporation establish a steering committee to review and complete the work already carried out on the Hamilton-Wentworth Waste Management Study in order that the recommendations contained therein can be implemented as soon as possible.

(v) That the Regional Corporation assume on an interim basis the existing By-Laws and Resolutions of the Area Municipalities and Commissions affecting the supply of water, the collection of sewage and the disposal of solid waste in any area municipality as set out in Bill 155.

(vi) That the Regional Corporation undertake a study with a view to establishing a uniform policy for the operation and maintenance of water, sewage and solid waste disposal facilities.

(vii) That the Regional Corporation prepare new uniform by-laws to cover the supply of water, the collection of sewage and the disposal of solid waste in all area municipalities. These new by-laws should be adopted as soon as possible.

(viii) That the Regional Corporation request all area municipalities, Public Utilities Commission, County of Wentworth, Hamilton-Wentworth Suburban Roads Commission and the Ministry of the Environment to prepare detailed inventories as of December 31, 1973 of all stores and supplies associated with facilities being assumed by the Regional Corporation.

(ix) That the Regional Corporation establish the Engineering Department following the general guide lines set out in this report and that the organization of this Department be thoroughly reviewed by December 1974 and adjusted in the light of experience gained by that time to establish the most efficient and economical system of operation.

(x) That the Regional Corporation set up Area Offices as set out in this report.

FINANCE

(i) That in the future the Regional Corporation pay to the area municipalities in relation to the regional roads that will be assumed, payments of principal and interest relating to the outstanding debt at the date of assumption.

That the Regional Corporation pay to the area municipalities in relation to the waterworks system assumed, payments of principal and interest in 1974 of $3,437,328. which payments relate to an outstanding debt of $28,257,069. as of January 1, 1974.

That with respect to sewage works assumed the Regional Corporation pay to the area municipalities payments of principal and interest in 1974 of $3,739,894. which payments relate to an outstanding debt of $32,891,363. as of January 1, 1974.

That with respect to storm sewer works assumed the Regional Corporation pay to the City of Hamilton payments of principal and interest in 1974 of $80,242. which payments relate to an outstanding debt of $661,114. as of January 1, 1974.

That with resepect to solid waste disposal works assumed the Regional Corporation pay to the area municipalities payments of principal and interest in 1974 of $911,917. which payments relate to an outstanding debt of $7,975,493. as of January 1, 1974.

(ii) That the Regional Corporation secure in writing from each of the area municipalities a statement that the liabilities applying to water, sewage, storm sewer and solid waste disposal works assumed by the Region from that area municipality are as listed in this report.

That the Regional Corporation also secures in writing from the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission a statement confirming that no outstanding debt exists against the road system assumed by the Region.

(iii) That in relation to the collection of monies to pay for the capital debt as well as the costs of operation, maintenance and administration of the regional waterworks system being assumed, the Regional Corporation for 1974 adopt the existing water rates presently in force in each service area of the area municipalities. These rates should be reviewed as soon as possible as part of a water rate study embracing all existing waterworks systems being assumed. If any surpluses or deficits occur they should continue to be the responsibility of the systems incurring these surpluses or deficits.

(iv) That in relation to the collection of monies to pay for capital debt costs as well as the costs of operation, maintenance and administration of the regional sewage works including collection and treatment facilities, the Regional Corporation establish by by-law an annual charge against each area municipality to cover the cost of the regional sewage facilities providing service to the area municipality.

The estimated annual charges for 1974 have been shown in Section 3.4.3. These charges should be reviewed as soon as possible as part of a sewer charge study embracing all existing sewage systems.

(v) That in relation to the collection of monies to pay for the capital debt costs as well as the costs of operation, maintenance and administration of the storm sewer works assumed from the City of Hamilton, the Regional Corporation charge back such costs to the City of Hamilton. This will require enabling legislation to be passed by the Legislative Assembly of the Province of Ontario.

These estimated costs for 1974 are set out in Section 3.4.4.

(vi) That the Regional Treasurer meet with the Treasurers of the Area Municipalities to determine the method and scheduling of payments in relation to the works assumed.

FUTURE ACTION

(i) That the Regional Corporation initiate work on a Roads Needs Study. This study would review the roads assumed by the Regional Corporation, recommend what roads should be added to or deleted from the system and set priorities for the maintenance and construction of these roads.

(ii) That the Regional Corporation initiate work on the development of a Master Plan for waterworks in conjunction with an Official Plan of the Region.

(iii) That the Regional Corporation initiate work on the development of Master Plans for sewage works and storm drainage works in conjunction with an Official Plan of the Region.

The Master Plan for storm drainage works would be used by the Regional Corporation and the area municipalities to establish responsibility for drainage areas and to set design criteria and standards to be used throughout the Region.

(iv) That the Regional Corporation initiate the implementation of the recommendations on the disposal of all solid wastes as set out in the Hamilton-Wentworth Waste Management Study.

(v) That the Regional Corporation initiate a water rate study embracing all existing waterworks systems in the Region.

(vi) That the Regional Corporation initiate a sewage charge study embracing all existing sewage systems in the Region.

(vii) That the Regional Corporation initiate a study to identify major remedial and capital works that should be undertaken during the 5 year period 1974-1979.

(viii) That the Regional Corporation initiate a study into the annual costs that should be charged against the City of Hamilton to cover the capital, operation and maintenance costs of the storm sewer system assumed from the City of Hamilton.

(ix) That the Regional Corporation initiate work on the assembly of all reports, drawings, property plans, agreements, and all other information relevant to works being assumed by the Regional Corporation.

(x) That the Regional Corporation establish a Regional Utilities Co-ordinating Committee in conjunction with the utility companies in the region.

(xi) That the area municipalities establish Area Utilities Co-ordinating Committees with a regional representative as a member.

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LIST OF ABBREVIATIONS

Whenever the word "gallon" or an abbreviation thereof is used in the report, it refers to the Imperial Gallon.

gal.	gallon
MGD	Million Gallons per Day
MIG	Million Imperial Gallons
MIGD	Million Imperial Gallons per Day
IGPM	Imperial Gallons per Minute
Ac.	Acre
OMB	Ontario Municipal Board

SECTION 1 - ASSUMPTION OF WORKS

1.1. General

This report deals with those works which the Regional Corporation is required by Bill 155 to assume on January 1, 1974. Under this Act the Regional Corporation assumes sole responsibility for the supply and distribution of water, the collection and disposal of all sewage, the disposal of solid waste and for all roads formerly under the jurisdiction and control of the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission.

Under this Act, the term "Works" includes buildings, plant, equipment and appurtenances as well as all real and personal property associated with the works.

In addition to the foregoing, the report includes recommendations with respect to:

(i) the assumption of all "Works in Progress".

(ii) the assumption by the Regional Corporation of certain major works presently in the planning or design phase.

(iii) the assumption by the Regional Corporation of various works presently operated and maintained by the Ministry of the Environment.

(iv) the assumption by the Regional Corporation of selected storm drainage works.

(v) the assumption by the Regional Corporation of the City of Hamilton Laboratory.

1.2. Principle of Assumption

The legislation creating the Regional Municipality of Hamilton-Wentworth differs from that of any previous Regional Acts in that the Regional Corporation as well as having responsibility for the regional roads system also has the sole responsibility for the supply and distribution of all water, the collection and disposal of all sewage, and the disposal of all solid waste. Thus the area municipalities have no responsibility for water, sewage or the disposal of solid waste and will have no staff experienced in the design, operation or maintenance of these facilities.

It is, therefore, recommended that the Regional Corporation take over the regional roads system and also all water, sewage and solid waste disposal works in accordance with Bill 155, including all "Works in Progress" and works in the advanced planning and design phase. Only in certain circumstances where an area municipality is using a Consulting Engineer on a project or where an area municipality is left with staff who have knowledge of the facility should the Regional Corporation consider contracting back the completion of the work to the area municipality.

The section of the legislation dealing with Regional Sewage Works also makes reference to the responsibility of the Regional Corporation with regard to land drainage. Specific recommendations with regard to the assumption of land drainage works are contained in Section 1.6. of this report.

Although no specific mention is made in the legislation of the assumption of the City of Hamilton Laboratory it is recommended that the Regional Corporation assume and be responsible for the operation of the laboratory. This laboratory is housed in the Hamilton Sewage Treatment Plant on Woodward Avenue which is also being assumed by the Regional Corporation. In addition the laboratory is financed more than 60% by the water and sewage operations.

It is recommended that the area municipalities prepare lists of all water, sewage and solid waste disposal works that could be considered as "Works in Progress" as of December 31, 1973. These lists should also include works in the advanced stage of planning and design.

In addition the City of Hamilton should prepare a detailed list of all storm sewer works and the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission should prepare detailed lists of all storm drainage works and roadworks which could be considered as "Works in Progress" as of December 31, 1973. These lists should also include works in the advanced stage of planning and design.

All these lists should be submitted to the Regional Corporation as soon as possible and prior to December 31, 1973. They should show details of the status of the design, construction,contractual arrangements, financing and other relevant details and should cover all "Works in Progress" including those carried out under the capital budget, current budget, urban renewal budget, subdivision agreements or by any other means.

1.3. Regional Roadworks

An inventory of the maintenance yards used by the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission has been undertaken and all yards are listed in Table 1 which is appended to this section. In addition the locations of the maintenance yards and roads to be assumed by the Regional Corporation are shown on Drawing No. 1 which is also appended to this section.

1.4. Regional Waterworks

An inventory of the major elements of the waterworks systems used by the area municipalities for the supply and distribution of water prior to the assumption by the Regional Corporation has been undertaken and all works are listed in Tables 2 to 6 which are appended to this section. In addition the locations of these facilities are shown on Drawing No. 2 which is also appended to this section.

A brief description of the major elements of the system in each area municipality is also presented herein.

It is recommended that the Regional Corporation do not assume the following privately owned waterworks systems at this time other than standing in place of and stead of the area municipality as it relates to any agreement between the area municipality and the private developer.

- Well system in Lots 5, 6, and 7, Concession IX, Township of East Flamborough.
- Well system in Lot 13, Concession X, Township of East Flamborough.
- Well system in Cedar Knoll Survey, Greensville, in the Township of West Flamborough.

1.4.1. City of Hamilton

The supply and treatment facilities owned by the City of Hamilton consist of intakes off Van Wagners Beach, a low lift pumping station and a treatment plant on Woodward Avenue with a capacity of 160 MIGD when expansion is complete in 1975. The ultimate capacity of the treatment plant is 300 MIGD.

The City also has several pumping stations, reservoirs, and a distribution system all of which are detailed on drawings which will be submitted to the Regional Corporation.

The City has agreements with the Towns of Dundas and Stoney Creek, and the Townships of Ancaster and Saltfleet covering the supply of water to these municipalities.

1.4.2. Town of Dundas

The waterworks system owned by the Town of Dundas is operated and maintained by the Dundas Public Utilities Commission. The Town receives all of its water supply from the City of Hamilton under an agreement with the City.

The Town has two reservoirs, three pumping stations and a distribution system as detailed on drawings which will be submitted to the Regional Corporation.

1.4.3. Town of Stoney Creek

The Town of Stoney Creek receives all of its water supply from the City of Hamilton under an agreement with the City.

The Town has one reservoir, one pumping station and a distribution system as detailed on drawings which will be submitted to the Regional Corporation.

1.4.4. Village of Waterdown

The waterworks system owned by the Village of Waterdown is operated and maintained by the Waterdown Public Utilities Commission. The source of supply consists of several wells and a 10" pipeline on the Waterdown Road which is connected to the Burlington system. The Village has an agreement with Burlington Public Utiliites Commission for a maximum supply of 0.5 MIGD through this pipeline.

The Village also has one elevated storage tank, two underground reservoirs, one pumping station and a distribution system as detailed on drawings which will be submitted to the Regional Corporation.

The elevated tank in the Village is in poor condition and a Preliminary Certificate of Approval has been received from the Ministry of the Environment for the replacement of this tank with a new 0.5 MIG tank.

The Village also supplies water to areas of the Township of East Flamborough and the Town of Burlington.

1.4.5. Township of Ancaster

The waterworks system owned by the Township of Ancaster is operated and maintained by the Ancaster Public Utilities Commission. The Township receives its water from two sources. The area below the escarpment known as Area #17 receives its water from the City of Hamilton. The other serviced area gets its water from a series of wells.

The Township has four reservoirs, two pumping stations and a distribution system as detailed on drawings which will be submitted to the Regional Corporation.

1.4.6. Townships of Beverly, Binbrook, West Flamborough and Glanford

These Townships have no municipally owned waterworks systems. The following system is owned, operated and maintained by a private developer:

- Well system in Cedar Knoll Survey, Greensville, in the Township of West Flamborough.

1.4.7. Township of East Flamborough

There is no municipally owned system in the Township of East Flamborough. Some areas of the Township adjacent to Waterdown receive water from the Waterdown system and are billed direct by the Waterdown Public Utilities Commission.

The following systems are owned, operated and maintained by private developers:

- Well system in Lots 5, 6, and 7, Concession IX, Township of East Flamborough.

- Well system in Lot 13, Concession X, Township of East Flamborough.

1.4.8. Township of Saltfleet

The Township of Saltfleet receives its water from two sources. The east area of the Township receives its water from Grimsby. The west area receives its water from the City of Hamilton.

The Township has two reservoirs with an additional reservoir under construction and another under design, three pumping stations and a distribution system as detailed on drawings which will be submitted to the Regional Corporation.

1.5 Regional Sewage Works

An inventory of the major elements of the sewage works systems used by the area municipalities for the collection and treatment of sewage prior to the assumption by the Regional Corporation has been undertaken and all works are listed in Tables 7 to 9 which are appended to this section. In addition the locations of these facilities are shown on Drawing No. 3 which is also appended to this section.

A brief description of the major elements of the system in each area municipality is also presented herein including major new systems in certain of the area municipalities.

The treatment facilities, pumping stations and sewer system in the Village of Waterdown are operated and maintained by the Ministry of the Environment. It is recommended that the Regional Corporation contract with the Ministry on an interim basis for the operation of these facilities.

1.5.1 City of Hamilton

The treatment facilities owned by the City of Hamilton consist of a 60 MIGD activated sludge plant on Woodward Avenue. The secondary treatment facilities are now under construction under an agreement with the Ministry of the Environment. This plant can be expanded to 120 MIGD as the flow increases.

Most of the areas of the City serviced before 1960 have combined sewers. Since that date all new construction has had separate sanitary sewers and storm sewers. The layout of the storm sewers, sanitary sewers and pumping stations are detailed on drawings which will be submitted to the Regional Corporation.

The City of Hamilton laboratory which should also be assumed by the Regional Corporation is housed in the sewage treatment plant on Woodward Avenue.

The City has agreements with the Town of Stoney Creek, and the Townships of Ancaster and Saltfleet covering the treatment of sewage from these municipalities.

1.5.2. Town of Dundas

The treatment facilities owned by the Town of Dundas consist of a 2.0 MIGD activated sludge plant in the works yard at 135 King Street East. A report is being prepared on the expansion of the plant to a capacity of 4.0 MIGD.

The Town has several pumping stations all of which are detailed on drawings which will be submitted to the Regional Corporation along with the drawings of the sanitary sewer system.

1.5.3. Town of Stoney Creek

All sewage from Stoney Creek is treated at the Hamilton sewage treatment plant on Woodward Avenue.

The Town has one pumping station and a system of collector sewers which are detailed on drawings which will be submitted to the Regional Corporation.

1.5.4. Village of Waterdown

The treatment facilities in the Village of Waterdown which are operated and maintained by the Ministry of Environment consist of a 0.3 MIGD activated sludge plant on Main Street South. The Village has asked the Ministry to undertake a study into the expansion of this plant.

The Village also has two pumping stations and a system of collector sewers which are detailed on drawings which will be submitted to the Regional Corporation.

1.5.5. Township of Ancaster

The proposed Ancaster sewer scheme has now been approved. It is anticipated that the first tenders will be called late in 1973 with work starting early in 1974.

The trunk sanitary sewers from Ancaster will be connected to the City of Hamilton system and all sewage from Ancaster will be treated at the Hamilton sewage treatment plant under an agreement between the Township and the City.

There are several pumping stations in the system and these are detailed on drawings which will be submitted to the Regional Corporation along with the drawings of the sanitary sewer system.

1.5.6. Township of Saltfleet

All trunk sewers from the present serviced area in the west end of the Township are connected to the City of Hamilton system and all sewage from this area is treated at the Hamilton sewage treatment plant under an agreement between the Township and the City.

The layout of the sanitary sewer system in the Township is detailed on drawings which will be submitted to the Regional Corporation.

There is a privately owned sewage system including a lagoon in the Gardendale Survey in the Winona area. It is recommended that the Regional Corporation assume only the agreement at this time.

The Ministry of the Environment is presently reviewing the servicing and sewage treatment facilities for the east end of the Township. When this scheme is introduced it will eliminate the Gardendale lagoon treatment facilities.

The Ministry of the Environment is also in the process of assuming responsibility for certain sewage works within the Township.

1.5.7. Townships of Beverly, Binbrook, East Flamborough, West Flamborough, and Glanford

There are no municipally owned sanitary sewers or treatment facilities in any of these Townships.

1.6. Land Drainage

Under Bill 155 the Regional Corporation is responsible for undertaking the land drainage system including storm sewers with respect to regional roads and any surrounding lands which naturally drain into such land drainage system. In addition the Regional Corporation may undertake a land drainage system including storm sewers in any part of the Regional Area as the Regional Corporation deems necessary. The area municipalities are to be responsible for all other land drainage systems, including storm sewers, within their respective boundaries.

1.6.1. Local Road Drainage

In view of the high percentage of combined sewers in the City of Hamilton and the difficulty of separating the storm and sanitary sewers for design, maintenance and operation purposes the Sub-Committee have developed the following recommendations in connection with the assumption of storm sewers by the Regional Corporation.

(i) That the Regional Corporation assume, operate and maintain all storm sewers in the City of Hamilton as outlined in the Assumption By-Law No. 9-73 appended to the end of this section.

(ii) That the City of Hamilton retain responsibility for the operation and maintenance of all catchbasins, catchbasin connections, ditches and culverts on the local roads under its jurisdiction.

(iii) That the area municipalities other than the City of Hamilton retain responsibility for the operation and maintenance of all drainage works including catchbasins, catchbasin connections, ditches, culverts and storm sewers on the local roads under their jurisdiction.

If the above noted recommendations are accepted the Regional Corporation will be responsible for all the storm sewers in the City of Hamilton and only the storm drainage system for the regional roads in the other area municipalities.

1.6.2. Regional Roads Drainage

Under Bill 155 the Regional Corporation must assume responsibility for the land drainage system including storm sewers with respect to all regional roads.

It is recommended that the Regional Corporation review with the Ministry of Transportation and Communications the subsidies which are available for drainage projects on regional roads with a view to establishing a policy in order to obtain the maximum possible subsidy from the Province.

1.6.3. Inter-Municipal Drainage

There appears to be no inter-municipal drainage problems at this time. The Regional Corporation should, however, establish a policy for considering the assumption of these complex inter-municipal drainage problems if and when they arise. It is recommended that the assumption of these inter-municipal drainage problems only be considered when formally requested by an area municipality.

1.6.4. Regional Conservation Authorities

Under the Conservation Authorities Act there are numerous types of hydraulic schemes involving flow control that can be accomplished with financial assistance from Provincial grants. It would, therefore, be beneficial to the Regional Corporation not to assume drainage schemes which could be financed by the Conservation Authorities on a more equitable and advantageous basis.

It is, therefore, recommended that the Regional Corporation establish a policy relating to the improvement of drainage works under the control of the Regional Conservation Authorities based on obtaining the maximum available grants from the Provincial Government.

1.6.5. Existing Drainage Works

The City of Hamilton have one storm drainage pumping station detailed on drawings which will be submitted to the Regional Corporation along with the detailed drawings of the storm sewers in the City.

The County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission should also submit detailed drawings to the Regional Corporation of all storm drainage works related to the roads which will be assumed from the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission.

1.7. Solid Waste Disposal Works

In 1972 the City of Hamilton, the County of Wentworth and the Ministry of the Environment entered into an agreement to carry out a Waste Management Study of all area municipalities in the County of Wentworth. The working documents for the final draft of this study are now complete and the following Resolution was passed at the last meeting of the Steering Committee which was held on September 13, 1973:

Resolved: That the working documents for the final draft of the report on the Hamilton-Wentworth Waste Management Study, as submitted to the Hamilton-Wentworth Waste Management Study Steering Committee by Proctor & Redfern Limited for review at its meeting held September 13, 1973, be received and tabled until such time as the Steering Committee as presently constituted has had an opportunity to meet and discuss the working documents with the members of the new Waste Management Study Committee to be appointed by the Council of the Regional Municipality of Hamilton-Wentworth for the purpose of bringing about an orderly transfer of all such information and documents for eventual implementation under the auspices of the new Steering Committee.

In accordance with the above Resolution it is recommended that the Regional Corporation set up a Steering Committee to review the recommendations of this Waste Management Report so that they can be approved and implemented as soon as possible.

An inventory of the solid waste disposal facilities used by the area municipalities for the receiving, dumping and disposal of solid waste prior to their assumption by the Regional Corporation has been undertaken during the course of this report and all facilities are listed in Table 10. In addition these facilities are shown on Drawing No. 4 and are also described in greater detail in the Hamilton-Wentworth Waste Management Study.

This Waste Management Study recommends that many of the existing sanitary landfill sites be closed as soon as possible.

It is, therefore, recommended that the Regional Corporation assume all of the existing disposal sites at this time but that they give consideration to returning these sites or part of these sites to the area municipalities if, after the recommendations of the Waste Management Study are implemented, they are not required for disposal works or for any other regional function.

The Village of Waterdown and the Township of East Flamborough do not have their own disposal sites. All solid waste from these municipalities is taken to the Burlington landfill site.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

REGIONAL ROADS INVENTORY

MAINTENANCE YARDS

TABLE NO. 1

AREA MUNICIPALITY	FACILITY	LOCATION	DESCRIPTION	GENERAL REMARKS
County of Wentworth	District No. 2 Machinery Storage Shed and Yard	Woodhill Road Twp. of Beverly Lot 19 - Conc. 4	435'x500' lot (approx. 5.0 Ac) 45'x90' metal frame building erected 1966	4 bays (3 heated) office, lunch room, washroom and stock room
	District No. 1 Machinery Storage Shed and Yard	Millgrove Road Twp. of W. Flamborough Lot 13 - Conc. 4	400'x600' lot (approx. 5.51 Ac) 174'x60' steel frame and concrete block building erected 1961	9 bays (7 heated) office, lunch room, washroom, stock area and tool room
	District No. 3 Machinery Storage Shed and Yard	Fiddler's Green Road Twp. of Ancaster Lot 42 - Conc. 5	400'x605' lot (approx. 5.55 Ac) 174'x60' steel frame and concrete block building erected 1959	9 bays (5 heated) office, lunch room, washroom, stock area and tool room
	District No. 4 Machinery Storage Shed and Yard	Tapleytown Road Twp. of Saltfleet Lot 17 - Conc. 7	420'x520' lot (approx. 5.0 Ac) 174'x60' steel frame and concrete block building erected 1959	9 bays (5 heated) 1 bay - spray painting, office, lunch room, washroom, sign shop, tool room and stock area
				NOTE: No yards to be assumed from Municipalities or Commissions not listed hereon.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

WATERWORKS INVENTORY

WELLS

TABLE NO. 2

AREA MUNICIPALITY	WELL	LOCATION	RATED CAPACITY	TREATMENT FACILITIES	PUMPHOUSE STRUCTURE	GENERAL REMARKS
Village of Waterdown Public Utilities Commission	#1 Gallin	Allen Lane	20 IGPM	NIL	Concrete Chamber	
	#2 Gallin	Allen Lane	21 IGPM	NIL	Concrete Chamber	
	#3 Gallin	Allen Lane	11 IGPM	NIL	Concrete	
	#4 Wilson	Parkside Drive	21 IGPM	NIL	Brick	
	#5 Park	Corner of Parkside Drive and Hamilton Street	7 IGPM	NIL	Frame and Concrete	
	#7 Tower	Kelly Street Pumping Station	10 IGPM	NIL	Concrete	
	#8 Wellington St.	East End of Wellington St.	40 IGPM	Iron Treatment & Chlorination	Prefabricated Steel	Not in use
Township of Ancaster Public Utilities Commission	#1	Mansfield Park	39 IGPM	NIL	Concrete Pad	
	#2	Wilson Street	125 IGPM	NIL	Brick Building	
	#3	McNiel Court	21 IGPM	NIL	Brick Building	
	#4	Mohawk Meadows	21 IGPM	NIL	Brick	
	#5	Not in use				
	#6	Clearview	83 IGPM	NIL	Brick	Well #6 is in sympathy with Well #7 and cannot be utilized at the same time.
	#7	Clearview	83 IGPM	NIL	Brick	
	#8	Sulphur Springs Road	250 IGPM	NIL	Brick	
	#9	Sulphur Springs Road	416 IGPM	NIL	Brick	To be increased to 583 IGPM this year.
						NOTE: No works to be assumed from Municipalities or Commissions not listed hereon.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

WATERWORKS INVENTORY

SURFACE WATER TREATMENT WORKS

TABLE NO. 3

AREA MUNICIPALITY	SURFACE WATER TREATMENT WORKS		RATED CAPACITY	TREATMENT FACILITIES	GENERAL REMARKS
City of Hamilton	Waterworks	900 Woodward Avenue	100 MIGD	Pretreatment and Filtration consisting of Intakes, Low Lift Pumping Station, Rapid Mixers, Flocculators, Anthrafilt-Sand Filters, Wash Water Storage Tank, Clear Water Well, Chemical Pre and Post Treatment, High Lift Pumping Station, Control Room, Hydro Sub-Station	Present Pretreatment Capacity - 200 MIGD Expansion of Filtration now under construction Expected Plant Capacity 160 MIGD. Land - 43± Acres.
					NOTE: No works to be assumed from Municipality or Commissions not listed hereon.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

WATER STORAGE WORKS

MUNICIPALITY	WATER STORAGE WORKS		CAPACITY	DESCRIPTION OF	GENERAL
City of Hamilton	#1 Reservoir	St. Joseph's Drive - West of Kenilworth Avenue	33.0 MIG	Concrete Underground	
	#1A	" " " "	11.0 MIG	Open Earth Dam	To Be Abandoned in future
	#1B	East of Greenhill Avenue - South of T.H.&B. Railway	20.0 MIG	Concrete - Underground	Second 20 MGD
	#2 "	South End of Mountain Avenue	13.4 MIG	Concrete - Underground	
	[illegible]	South of Highway #403 - West of Chedoke Civic Golf Course	15.0 MIG	Concrete - Underground	Under Design
	#4 Elevated Tank	Greenhill Avenue at Rosedale Ave.	0.10 MIG	Steel Tank with Masonry Valve House	[illegible]
	#5 Reservoir	Stone Church Rd. at Garth Street	25.0 MIG	Concrete - Underground	25 MIG Extension to be completed in 1974 (Land - 1210' x 675' Additional 360' x 1210' being purchased)
Town of Dundas Public Utilities Commission	Woodley's Lane	Woodley's Lane	1.0 MIG	Concrete - Underground	
	Highway #99	Highway #99	0.625 MIG	[illegible]	
Town of Stoney Creek	[illegible]	On Mountain Avenue South, South of T.H.&B. Railway Tracks (Located in Township of Saltfleet)	0.25 MIG	Steel Standpipe on Concrete Base	
Village of Waterdown Public Utilities Commission	[illegible] Street Reservoir	Kelly Street	0.0[illegible] MIG	Elevated Steel Tank	Tank in Poor Condition Design and Property acquisition for new 0.5 MIG tank started [illegible] ed by Burlington P.U.C.
	Kelly Street Reservoir	Kelly Street	0.375 MIG	Concrete - Underground	
	Kelly Street Reservoir	Kelly Street	[illegible]	Concrete - Underground	
Township of Ancaster Public Utilities Commission	Green Road	Green Road	0.173 MIG	Elevated Steel Tank	
	Dunham Drive	Dunham Drive	[illegible]	Elevated Steel Tank	
	[illegible] Booster Sta.	Mineral Springs Road	[illegible]	Concrete - Underground	
	Filman Road Booster Station	Filman Road	[illegible]	Concrete - Underground	
Township of Saltfleet	Reservoir	Fifty Road Plateau	[illegible]	Concrete - Underground	
	Reservoir	Millen Road Plateau	[illegible]		
	Reservoir	Highland Road	[illegible]		Construction in progress Design completed Contract Documents complete - Property [illegible]
	Reservoir	DeWitt Road	[illegible]		

NOTE: No works to be assumed from Municipalities or Commissions not listed hereon.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

WATERWORKS INVENTORY

PUMPING STATIONS

TABLE NO. 5

[illegible] IPALITY	PUMPING STATION	LOCATION	RATED [illegible]	DESCRIPTION OF [illegible]	[illegible]
City of Hamilton	Low Lift	Van Wagners Beach Road	272 MIGD	[illegible]	
	[illegible]	900 Woodward Ave.	191 MIGD	Brick	
	#2	Ferguson Avenue South	[illegible]	Masonry	Installation of Second 15 MIGD to be completed in 1974.
	[illegible]	Cochrane Road - South of Lawrence Road	1.5 MIGD	Masonry	
	[illegible]	Quigley Road - South of King St.	[illegible] 5.0 MIGD	[illegible] Masonry	To be Temporarily used as standby after 1974.
	[illegible]	Greenhill Avenue South of [illegible]	5.0 MIGD	Masonry	
	[illegible]	[illegible]	100 IGPM	[illegible]	
	[illegible]	St. Joseph's Drive - West of Kenilworth Avenue	17.5 MIGD	[illegible]	
	[illegible]	Stone Church Road at Garth St.	13.0 MIGD	[illegible]	
Town of Dundas [illegible]	[illegible]	#8 Highway, Binkley Hollow	1,100 IGPM	[illegible]	
	Old Ancaster Road	Old Ancaster Road	1,350 IGPM	[illegible]	
	#99 Highway	#99 Highway	850 IGPM	[illegible]	[illegible] and sub-station-owned by Hydro Dept.
Town of Stoney Creek	Lake Avenue Station	West Side of Lake Avenue about 400' north of Queenston Road (located in the City of Hamilton)	North Pump 343-349 [illegible]	Brick Building	
			South Pump [illegible] IGPM		[illegible] operated over Bell Canada System from the storage tank and alarm system in Police Station.
			Both Pumps 780-931 IGPM		After January 1, 1974 Police Station will not be manned 24 hours per day. New arrangements must be made.
[illegible] Waterdown [illegible]	Kelly Street Pumping Station	[illegible]	[illegible]	[illegible]	[illegible]
			[illegible]		Standby Gasoline Pump
Township of Ancaster [illegible]	Lee Smith Booster Pumping Station	Mineral Springs Road	[illegible]	[illegible]	To be increased to 2.0 MIGD on Hamilton System
	Filman Road Booster Station	Filman Road	[illegible]	Concrete - Underground	
			[illegible]		Fire Pump
Township of Saltfleet	#1	174 Barton Street	[illegible]	Brick and Concrete 19'6" x 46'6" Constructed 1967	Diesel Standby
	[illegible]	57 Millen Road	[illegible] [illegible] PM 541 IGPM	[illegible] 8' x 14'	Diesel Standby
	[illegible]	Fifty Road Plateau	166 IGPM 166 IGPM	In Head House	
					NOTE: No works to be assumed from Municipalities or Commissions not listed hereon.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

WATERWORKS INVENTORY

OTHER FACILITIES & PROPERTIES

TABLE NO. 6

AREA	FACILITY OR PROPERTY	LOCATION		GENERAL REMARKS
City of Hamilton	for Pressure District No. 3	No. 2 Booster Pumping Station Ferguson Avenue South	Piping and Valves to reduce Pressures from No. 5 District	Capacity - 2.5 MIGD Only supply source to No. 3
	for Pressure District No. 4	No. 4 Elevated Tank at Greenhill Ave. and Rosedale		Capacity - 1.0 MIGD Standby Supply for District #4
		Warren Ave. and Mohawk Rd.		
		Norfolk St. and King St.		
	Pipe Line Property	Diagonally from 900 Woodward Ave. to Main St. & Ottawa St.	Woodward Ave. to Grace Ave. Grace Ave. to Brampton St. Brampton St. to Barton St. Ave. Roxborough Ave. to Main St.	
	36" Watermain Property	Woodward Ave. to Dunn Ave. Between Woodside Dr. and Flock Road at High St.	40' Wide 66' Wide x 137.66'/146.30'	
	8" Watermain Property	Between Hildegard Dr. and Hanover Place	Block 'W' - Glendale Estates Phase 2 & Block 'A' - Veevers Estate No. 3	15' Wide
		Between Beach Rd. and	Rear of Lot on West Side Stapleton Ave.	
Town of Dundas	York Road	York Road at C.N.R. Tracks	Property for future storage	
Village of Waterdown		Waterdown Road	Supply of 500,000 GPD	Pipe Line owned by Burlington P.U.C. Agreement with Town of Burlington to supply a maximum of 500,000 GPD from their reservoir on Waterdown
				NOTE: No works to be assumed from Municipalities or Commissions not

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

SEWAGE WORKS INVENTORY

SEWAGE TREATMENT WORKS

TABLE NO. 7

AREA MUNICIPALITY	TREATMENT WORKS	LOCATION	RATED CAPACITY	TREATMENT FACILITIES	GENERAL REMARKS
City of Hamilton	Sewage Treatment Plant	700 Woodward Ave.	60.0 MIGD	Primary and Secondary consisting of Pumping Station, Detritors, Primary Settling, Aeration, Final Settling Flotation, Digesters, Sludge Filtration, Incineration, Chlorination, Boiler Facilities, Administration and Control Building, Gas Sphere, Standby Generator Building.	Secondary Treatment Facilities under construction by the Ministry of the Environment
Town of Dundas	Sewage Treatment Plant	135 King St. E.	2.0 MIGD	2-Stage Activated Sludge Treatment	Report on expansion of Plant being undertaken
Village of Waterdown	Sewage Treatment Plant	Main Street South	0.3 MIGD	Activated Sludge	M. O. E. Project No. 2-0163-63 Plant Operated by the Ministry of the Environment
					NOTE: No works to be assumed from Municipalities or Commissions not listed hereon.

[illegible]Y OF HAMILTON-WENTWORTH

SEWAGE WORKS INVENTORY

PUMPING STATIONS

TABLE NO. 8

AREA MUNICIPALITY	PUMPING STATION	LOCATION	RATED CAPACITY	DESCRIPTION OF	GENERAL
City of Hamilton	[illegible] (Sanitary Sewage)	[illegible] Bay St.	7.0 MIGD (New Sta.)	Wet Well and Separate Pump and Motor Room with Superstructure	A new Station is under construction adjacent to existing station. Old station to be demolished.
	West 31st Street (Sanitary Sewage)	South-West Corner West 31st Street and [illegible]	2.2 MIGD	Divided Wet Well with separate Pump and Motor Room. Mostly below ground with superstructure above.	
	Parkdale Avenue [illegible]	North-West Corner Parkdale Avenue and Burlington Street	7.6 MIGD	Single Wet Well with separate Pump and Motor Room. Below ground with superstructure above.	
	[illegible]	[illegible] Gage Ave. North and Burlington Street			Abandoned Land - 175' x 243'
	Royal Avenue	[illegible] Stroud Rd. & Royal Ave			This station is abandoned and land is being sold - Land - 0.32 Acres
Town of Dundas	[illegible] Sleepy Hollow	Sleepy Hollow Road	100 IGPM	1 Pump: 1 Wet Well below ground - Concrete	
	[illegible] Hillyard	[illegible]	100 IGPM	1 Pump: 1 Wet Well below ground - Concrete	
	[illegible] Hope	Hope Street	50 IGPM	1 Pump: 1 Wet Well/1 Dry Well - Concrete: below ground, brick - house above ground	Immediate reconstruction proposed for increased capacity
	[illegible] Creighton	Creighton Road	450 IGPM	1 Pump: 1 Wet Well/1 Dry Well below ground - Concrete	
	[illegible] Terrace	[illegible]	60 IGPM	Mono-O-Jet (Smith & Loveless), steel construction - below ground	
	[illegible]	Hillside Avenue	450 IGPM	1 Pump: 1 Dry Well/1 Wet Well below ground - Concrete	
	[illegible]	[illegible]	50 IGPM	1 Pump: 1 Dry Well/1 Wet Well below ground - concrete - Brick house above ground.	
	[illegible] King Street	King St. E. at East St.	960 IGPM 400 IGPM	2 Pumps: 1 Dry Well/1 Wet Well - - Concrete below ground. Brick house above ground.	
Town of Stoney Creek	Donn Avenue Station	On west side of Donn Ave. road allowance at Burwell Ave.	125 IGPM	Smith & Loveless Factory Built Automatic Sewage Pumping Station	
Village of Waterdown	[illegible]	East End of Elgin St.	2-160IGPM Each	[illegible]	
	Union St.	Corner of Union St. and Mill St.	50 IGPM	[illegible]	Standby Pump at Waterdown Sewage Treatment Plant
					NOTE: No works to be assumed from Municipalities not listed [illegible].

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

SEWAGE WORKS INVENTORY

OTHER FACILITIES & PROPERTIES

TABLE NO. 9

MUNICIPALITY	PROPERTY	LOCATION	DESCRIPTION	REMARKS
City of Hamilton	Sewer Regulator	Greenhill Ave. at Red Hill Creek	Electrically Operated Sluice Gate - Recorder and Remote Control at Sewage Treatment Plant	Underground Chamber
	Sewer Regulator	Royal Ave. and Stroud Road		
	Sewer Regulator	Ferguson Ave. and Ferrie St.		
	Sewer Regulator	Queen St. and Barton St.		
	Sewer Regulator	Lawrence Rd. and King St.	Hydraulically Operated Sluice Gate, Recorder and Remote Control at Sewage [illegible]	
	Sewer Right-of-Way	Adeline St. - Britannia Ave. and Roxborough Ave.	Lot No. 32	28.79' x 106'
	Sewer Right-of-Way	"	Lot No. 31	28.96' x 108'
	Sewer Right-of-Way	Glennie Ave. between Britannia Ave. and Roxborough Ave.	Lot No. 93	28.229' x 106'
	Sewer Right-of-Way	Ivon Ave. between Britannia Avenue and Roxborough Ave.	Lot No. 31	[illegible]
	Sewer Right-of-Way	Caroga Court to Cranbrook Dr.	Block S, U, N - Gilkson Gardens Subdivision	[illegible]
	Sewer Right-of-Way	Birchcliffe Ave. to Billington Crescent	Block 'K' - Berrisfield Gardens No. 2	[illegible]
	Sewer Right-of-Way	Brandon Court to Board of Education	Block 'N'	[illegible]
	Sewer Right-of-Way	Blackwood Crescent to [illegible]		[illegible]
				[illegible] No works to be assumed from Municipalities not listed hereon.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

SOLID WASTE DISPOSAL INVENTORY

SOLID WASTE DISPOSAL SITES

TABLE NO. 10

MUNICIPALITY	DISPOSAL SITE	LOCATION	OF SITE	TYPE OF	GENERAL
City of Hamilton		Kendra Ave. between Mainline			Management Study'
	Mountain Landfill Disposal Site	South of Limeridge Rd.			
	West End Landfill Disposal Site				
	East End Landfill Disposal Site	North of Brampton St. between Red Hill Creek and Sewage Treatment Plant			
Town of Dundas		Part Lots 19, 20, 21, & 22, Con. 1, West Flamborough Township now Town of Dundas	acre area being used of total area of acres.		Property being used is part of lands acquired in 1968 by the Town of Dundas from quired for road and right-of-way purposes is described in four parcels 'A', 'B', 'C', and 'D'. Approximately one acre of Parcel 'B' has been designated for use as a temporary sanitary landfill area. Land being used is not zoned for garbage dump purposes.
Township of Ancaster	Jerseyville Road Landfill Site	Lot 35, Con. 3 on Jerseyville Road 1400' West of Shaver Road		Sanitary Landfill	The landfill site is being prepared for future use as a park and recreation area. All garbage is being placed with this future use in mind. Roadways and grades are designated to implement the park and recreational use in the future. Township will wish this site returned to them for this use when it is filled. It is proposed in sion will cut across southern portion of site. Site still has considerable capacity ble.
Township of Beverly	Township Dump	Lot 22, Concession VI		Sanitary Landfill	Operated by private contractor under agreement with the Township.
Township of Binbrook	Township Dump	Lot 5, Block 4, Concession IV			
Township of Glanford	Township Dump	Lot 6, Concession VI			
Township of Saltfleet		6th Road East at Powerline Road			
Township of West	Township Dump	Lot 12, 13, Con. VI			NOTE: No works to be assumed from Municipalities or Commissions not

Road Works

Legend

- Maintenance Yards
- County Roads
- Suburban Roads

Water Works

Legend

- Wells
- Water Storage Works
- Water Storage With Well and Pumping Station
- Pumping Station
- Pumping Station With Storage Works
- Water Treatment Works With Pumping Station
- External Water Supply

Sewage Works

Legend

- Sewage Treatment Plant
- Sewage Pumping Station

Solid Waste Disposal Works

Legend

- Landfill Site
- Incinerator

ASSUMPTION BY-LAW NO. 9-73

THE REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

BY-LAW NO. 9-73

To assume Storm Sewers within the boundaries of the City of Hamilton

WHEREAS the Regional Corporation is empowered under subsection (8) of section 77 of the Act to Establish The Regional Municipality of Hamilton-Wentworth to undertake a land drainage program including storm sewers in any part of the Regional Area as the Regional Corporation deems necessary, and

WHEREAS the Regional Corporation is in that connection empowered under subsection (9) of section 77 of the Act to Establish The Regional Municipality of Hamilton-Wentworth to assume all or any portion of the land drainage system including storm sewers of any area municipality without compensation but subject to the payment by the Regional Corporation to the area municipality before the due date of all amounts of principal and interest becoming due upon any outstanding debt of such area municipality for such land drainage system including storm sewers, and

WHEREAS the Council of the Regional Municipality of Hamilton-Wentworth deems it desirable and expedient that all storm sewers in the City of Hamilton be assumed by the Regional Municipality of Hamilton-Wentworth with effect from January 1, 1974.

NOW THEREFORE THE COUNCIL OF THE REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH ENACTS AS FOLLOWS:

1. That The Regional Municipality of Hamilton-Wentworth in pursuance of its authority under An Act to Establish The Regional Municipality of Hamilton-Wentworth hereby assumes all storm sewers located within the boundaries of the City of Hamilton.

2. That this By-Law shall come into force and effect on the 1st day of January, 1974.

ENACTED AND PASSED this 13th day of December, 1973.

R. E. F. Eddy Acting Clerk	Anne Jones Chairman

SECTION 2 - THE OPERATION AND ORGANIZATION OF WORKS

2.1 Regional Roads

Under Bill 155 the Regional Corporation assumes responsibility on January 1, 1974 for all the roads presently under the jurisdiction and control of the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission.

In order to cause only the minimum disruption to the operation of the road system formerly run by the County and the Suburban Roads Commission it is recommended that all facilities operated by these road authorities continue in their normal method of operation but under the jurisdiction and control of the Commissioner of Engineering on behalf of the Regional Corporation.

The Commissioner of Engineering should develop a policy relating to the administration and operation of the regional roads system in accordance with Part III of Bill 155.

This policy should include a review of the feasibility of the Regional Corporation using the services of the City of Hamilton Traffic Department on a contract basis for all work related to signal light devices.

2.2. Water and Sewage Works

The operation and maintenance of all water supply works and sewage disposal works in the City of Hamilton should continue in their normal method of operation but under the jurisdiction and control of the Commissioner of Engineering on behalf of the Regional Corporation. This would also include the operation and maintenance of all watermains, sanitary sewers and storm sewers in the City of Hamilton.

The operation of the water supply works and sewage disposal works in the other area municipalities should initially be operated and maintained by the personnel who are familiar with these facilities and who have been transferred to the Regional Corporation. These works and personnel would all be under the jurisdiction of the Commissioner of Engineering or a person delegated by him to look after the works in a particular area.

In order that the operation and maintenance of these facilties can be kept at the 'local' level as much as possible and in order that all of the people of the area municipality do not have to relate to an office in central Hamilton for the issuing of permits, maintenance and other day to day problems, it is recommended that the Region be divided into three service areas with offices and yards in each of these areas. The location of these area offices and yards are described in Section 2.9.

A committee known as the "Government Committee on Restructuring of Public Utilities" is presently carrying out a review of the operation of the hydro facilities provided by the Public Utilities Commissions. The recommendations of this committee which should be known by the end of 1973, will affect some of the interim recommendations of this report as it relates to offices, yards, meter reading and billing. This is described in the sections of this report dealing with these facilities and functions.

The Ministry of the Environment are also reviewing their operations in the new regional areas. Until such time as the Ministry completes this review it is recommended that the Regional Corporation contract back to the Ministry on an interim basis for the operation and maintenance of the Waterdown Sewage Treatment Plant.

In order to continue the meter reading and billing of water rates in the most economical manner, it is recommended that the Regional Corporation consider contracting back these functions to the area municipalities or the Hydro Electric Commission on an interim basis.

2.5 Inventories of Stores and Supplies

The area municipalities, Public Utilities Commissions, the County of Wentworth, the Hamilton-Wentworth Suburban Roads Commission and the Ministry of the Environment should prepare inventories as of December 31, 1973, of all stores and supplies associated with facilities being assumed by the Regional Corporation.

These inventories should include all plant operation materials, chemicals, fuels, equipment other than mobile equipment, etc.

It is further recommended that all authorities maintain normal inventory levels of these chemicals, fuels, etc., as necessary in order to avoid any interruption of service at such time as the Regional Corporation assumes the direct responsibility for these services.

2.6 Personnel Inventories

Inventories of the personnel in each area municipality, Public Utilities Commission, the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission presently working on the administration, operation and maintenance of regional roads, water, sewage, storm drainage, solid waste disposal works and the laboratory to be assumed by the Regional Corporation are shown in Tables 11 to 13.

Only very limited information was solicited regarding the employees' skills and experience during the study as it was not deemed a matter for detailed study at this time. It is assumed that the Regional Personnel Director, or person acting in this capacity, will complete all further necessary information relating to personnel to be transferred to the Regional Corporation.

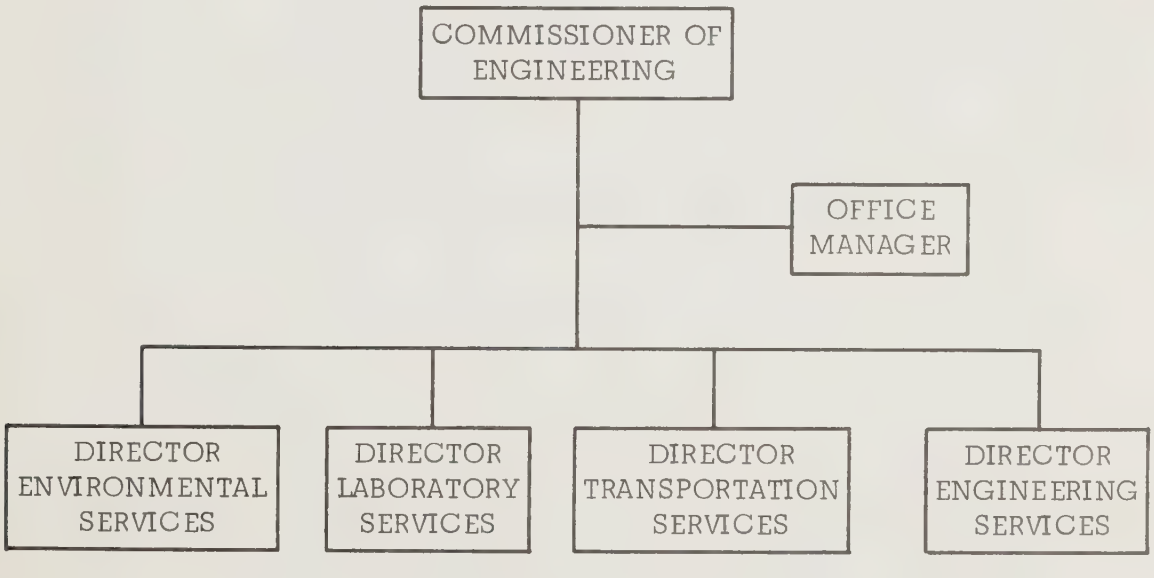
The employee of the Ministry of the Environment at the Waterdown sewage treatment plant has been listed on the inventory of personnel but will not be transferred to the Region at this time if the Regional Corporation decides to contract back the operation and maintenance of this treatment plant to the Ministry of the Environment.

2.7 Mobile Equipment Inventories

Inventories of all mobile equipment used by each area municipality, Public Utilities Commission, the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission in the administration, operation and maintenance of regional roads, water, sewage, storm drainage and solid waste disposal works to be assumed by the Regional Corporation are shown on Tables 14 to 18.

2.8 Regional Department of Engineering

The organization of the upper level of the Regional Department of Engineering should be as follows:



This organization provides for the integration into one department of all engineering functions for which the Regional Council is responsible.

It is recommended that the organization of this Department be thoroughly reviewed by December 1974 and that it be adjusted in the light of experience gained by that time in order to establish a more efficient and economical system of operations.

2.9. Area Offices

As previously noted in this report it is recommended that area offices and yards be established in order that the public may deal with an office in their own area with their day to day problems related to the works being operated by the Regional Corporation. This also means that the personnel involved in the operation and maintenance of the various facilities will have a base of operation in their own general area.

The recommended location of the area offices and yards and the areas to be serviced are as follows:

(i) Western Area

An office and yards to be established in the Town of Dundas to service Dundas, Ancaster and Flamborough.

(ii) Eastern Area

An office and yard to be established in the Town of Stoney Creek to service Stoney Creek.

(iii) Central Area

Offices and yards to be established in the City of Hamilton to service the City of Hamilton and the Township of Glanbrook when services are extended into the Glanbrook area.

2.9.2. Eastern Area

There are no waterworks or sewage works yards available at this time in the Eastern Area. It is, therefore, recommended that these facilities be based at either the Hamilton Sewage Treatment Plant or the incinerator on an interim basis.

If a new sewage treatment plant is to be developed in the Winona area then the Regional Corporation should investigate the possibilities of establishing a new works yard in that same general area.

An area office should be established in the old Stoney Creek municipal office. This office would be responsible for the issuing of permits relating to water and sewer connections, etc. In addition, this office could be used for other regional functions relating to social services, etc., in the area.

2.9.3 Central Area

It is recommended that the administrative office for the Department of Engineering be situated in the main regional offices along with the other regional departments. This administrative office should also be responsible for the issuing of permits relating to water and sewer connections, etc., in the central area. The approximate area required for the administrative office of the Department of Engineering is 10,000 square feet. This space requirement should be reviewed in detail by the Commissioner of Engineering as soon as possible as part of an overall space study.

The City of Hamilton has sold its yard on Elgin Street and had intended moving its water and sewer maintenance facilities to a new Central District Service Centre on the old Eaton site at Barton Street and Caroline Street. The buildings on this site are presently being renovated by the City.

It is recommended that the Regional Corporation lease part of this Central District Service Centre from the City for use as a water and sewer maintenance facility.

The Upper Ottawa Street landfill site is also used for a number of other purposes including facilities for a small sewer maintenance crew. Part of this site is also used by the City for its road maintenance crews and for the garbage collection trucks all of which remain a local responsibility.

The Regional Corporation should review the Ottawa Street landfill site and the possible division of the site between the City of Hamilton and the Regional Corporation. The Regional Corporation could then develop a sewer and water maintenance facility on this site to service the mountain area and the Township of Glanbrook when services are developed in the Township.

In the meantime, it is recommended that the Region rent the necessary facilities in the City buildings on the landfill site.

2.10 Special Agreements

Several of the former local municipalities have in force agreements with other municipalities outwith the new regional area of Hamilton-Wentworth. These agreements are as follows:

1. An agreement between the Village of Waterdown and Burlington Public Utilities Commission with regard to the purchase of water.

2. An agreement between the Township of Saltfleet and the Town of Grimsby with regard to the purchase of water.

3. An agreement between the Village of Waterdown and the Town of Burlington with regard to the disposal of solid waste.

4. An agreement between the Township of East Flamborough and the Town of Burlington with regard to the disposal of solid waste.

5. Agreements between the County of Wentworth and the County of Wellington relating to road maintenance.

It is recommended that where such agreements are in force on December 31, 1973, they be continued with the Regional Corporation standing in place and stead of the area municipality or the County of Wentworth.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

PERSONNEL INVENTORY

ADMINISTRATION

REGIONAL ROADS, WATER, SEWAGE AND SOLID WASTE DISPOSAL WORKS

TABLE NO. 11

AREA MUNICIPALITY	NAME	JOB	LOCATION	GENERAL
City of Hamilton	Leach, J. R. G., P. Eng.	Deputy City Engineer	City Hall	
	[illegible], P. Eng.	Director, Engineering Planning	" "	
	Brenner, K., P. Eng.	Ass't. Director, Engineering Planning	" "	
	[illegible], W. O., P. Eng.	Project Planning Engineer		" "
	Marko, P., P. Eng.	Asst. Director, Engineering Design		
	Koshurba, J., P. Eng.	Hydraulic Design Engineer	" "	
	Baxter, L., P. Eng.	Engineer I	" "	
	Kucsma, J.	Supvr. Engineering Drafting	" "	
	West, D.	Draftsman I	" "	
	Hempstock	Draftsman I	" "	
	Jelonek, E.	Draftsman I	" "	
	Lee, W.	Draftsman I		
	Ramsay, J.	Draftsman I		
	Rogers, K.	Draftsman I		
	Taylor, W.	Draftsman I		
	White, [illegible]	Draftsman I		
	Wells, [illegible]	Draftsman I		
	Pasella, [illegible]	Draftsman II		
	Rizzato, A.	Draftsman II		
	Szaroleta, S.	Draftsman II		
	Svejdova, M.	Draftsman III	" "	
	Ho, K.	Draftsman II		
	Stone, [illegible], P. Eng.	Director, Engineering Construction		
	Szigeti, S., P. Eng.	Engineer I		
	Feenstra, F., P. Eng.	Construction Engineer	" "	
	Englebrecht, T.	Construction Officer Supervisor		
	Younger, R.	Construction Inspector I		
	Manta, J.	Construction Inspector II		
	Smith, G.	Construction Inspector II	" "	
	Merrit, J.	Construction Inspector II		
	McLeod, D.	Construction Inspector II	" "	
	Wild, J.	Construction Inspector II	" "	
	Chartier, P.	Construction Inspector II	" "	
	Bunting, M.	Construction Inspector II		
	Curtis, W.	Construction Inspector II	"	
	Rutherford, J.	Construction Inspector II	" "	
	Jalowica, W.	Private Drain Inspector	" "	
	Clairmont, J.	Private Drain Inspector	" "	
	Bishop, J., P. Eng.	Director, Technical Services	" "	
	King, L., P. Eng.	Technical Services Engineer	" "	
	Campbell, G.	Field Control Supervisor	" "	
	Terluk, V.	Quality Control and Technical Training Supervisor		
	Bordonaro, A.	Field Control Assistant	" "	
	Podolsky, R.	Engineering Clerk	"	
	Franco, L.	Secretary Committee on Works	" "	
	Tait, A.	Secretary II		
	Cooper, J.	Stenographer II		
	Le Clere, T.	Stenographer IV		
	Richards, G.	Clerk Typist		
	Bearman, T.	Asst. Cost Accountant	"	
	Chidley, M., O.L.S.	Asst. City Surveyor	" "	
	Risdon, J.	Instrumentman I	" "	
	Zsepeczky, W.	Instrumentman I	"	
	Beitz, C.	Instrumentman I	"	
	McCullough, K.	Rodman I	"	
	Couture, G.	Rodman I	" "	
	Earle, R.	Rodman I	" "	
	McDonald, J.	Rodman I	" "	
	Sadowsky, D.	Rodman I	" "	
	Habsza, S.	Rodman I		

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

[illegible]

ADMINISTRATION

OF

REGIONAL ROADS, WATER, SEWAGE AND SOLID WASTE DISPOSAL WORKS

TABLE NO. IIA

AREA MUNICIPALITY	NAME	JOB DESCRIPTION	LOCATION BASED	GENERAL REMARKS
City of Hamilton	Forde, A. V.	Director	Municipal Lab Hamilton S.T.P.	
	Dunn, P.	Lab Technician (S.T.P.)	" " " "	
	Hanlon, J.	Engineering Technician	" " " "	
	Kaye, D.	Lab Technician Waterworks	" "	
	Kuppe, A.	Laboratory Technician II	" "	
	[illegible]	[illegible]		
	Langguth, K.	Lab Technician Waterworks		
	McDonald, B.	Laboratory Assistant		
	[illegible]	[illegible]		
	McLellan, A.	Stenographer I		
	[illegible]	[illegible]	" "	
	[illegible]	[illegible]		
	Partito, J.	Lab Technician (S.T.P.)		
	Poole, W.	Lab Technician Waterworks	" " " "	
	Taylor, N.	Swimming Pool Technician	" "	
	West, C.	Lab Technician I		
Town of Stoney Creek	Courtney, J. F.	In Charge of Sewage Impost Rates & Local Improvement Rates	13 Lake Avenue South	
	Large, C.	Waterworks Bookkeeper	" " " "	
Ancaster Public Utilities Commission	Davis, M.	Clerk	Ancaster Municipal Office	
	Moriarty, M.	Stenographer	" "	
Township of Saltfleet	Darby, M.	Waterworks Bookkeeper	777 Highway #8, Fruitland	
	Southern, J.	Waterworks Bookkeeper - Cashier	" " " "	
	[illegible]	Waterworks Billing Machine Operator	" " " "	
	Amin, K. A., P. Eng.	Township Engineer	" " " "	
	Wilton, R.	Clerk - typist	" "	
County of Wentworth	Fraser, R. C., P. Eng.	County & Commission Engineer	Office	
	Pattison, H. G., P. Eng.	Asst County & Commission Engineer	"	
	Anderson, M. R.	Roads Supervisor	"	
	Crawford, D.	Accountant	"	
	Farstad, A. B.	Office Supervisor	"	
	Kenyon, P.	Bookkeeper	"	
	MacKinnon, E.	Departmental Secretary		
	Salatandre, H.	Design Technician		
	Collins, I.	Draftsman	"	
	Lane, J.	Construction Supervisor	[illegible]	
	Rasberry, R.	Inspector	" "	
	Adshead, D.	Assistant to Inspector		
	[illegible]	[illegible]	"	
	Boles, E.	Survey Assistant		
				No personnel to be transferred from Municipalities or Commissions not [illegible]

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

PERSONNEL INVENTORY

OPERATION & MAINTENANCE

OF

[illegible]

[illegible]

AREA MUNICIPALITY	NAME	JOB	LOCATION	GENERAL
County of Wentworth	Wetherelt, J.	District Foreman	Millgrove Depot	
	Bisbee, L.	Assistant Foreman	" "	
	[illegible]	[illegible]		
	Gibson, W.	Operator		
	Holditch, G.	Operator		
	[illegible]	[illegible]		
	Peer, M.	Operator		
	Brenn, M.	Truck Driver		
	Zimmerman, P.	Truck Driver		
	Hood, V.	Mechanic		
	Voskamp, A.	Labourer		
	Wiertel, S.	Labourer		
	Guerin, P.	Labourer		
	George, L.	Truck Driver		
	Switzer, H.	District Foreman	[illegible] Depot	
	McCallum, G.	Assistant Foreman		
	Christian, I.	Operator		
	Cline, V.	Operator		
	McDonald, F.	Operator		
	Duff, I.	Truck Driver		
	Jacobs, F.	Truck Driver		
	Ribbecon, J.	Truck Driver		
	[illegible]	[illegible]		
	Hatcher, I.	[illegible]		
	Leach, R.	Labourer	"	
	Young, A.	Disability Leave	" "	
	Gray, M. A.	Labourer		
	Draper, C.	District Foreman	Rockton Depot	
	Hunt, F.	Assistant Foreman	" "	
	McCoy, N.	Truck Driver		
	McDonough, M.	Truck Driver		
	Revill, I.	Truck Driver		
	Bishop, C.	Labourer	"	
	Sheppard, J.	Labourer		
	Brooks, J.	Labourer		
	Fretwell, I. J.	District Foreman	Green Depot (Assistant)	
	Ferguson, R.	Assistant Foreman	" "	
	Hunt, N.	Operator	" "	
	Metcalf, A.	Operator	" "	
	Whitehead, R.	Operator	"	
	Bentley, J.	Truck Driver	"	
	Bishop, F.	Truck Driver	"	
	Stickland, C.	Mechanic	" "	
	McCulloch, A.	Labourer	" "	
	Manning, P.	Labourer	" "	
	Paulis, C.	Labourer	"	
	Switzer, W.	Labourer	" "	
	Willson, D.	Labourer	" "	
	Fretwell, A.	Long term pensioners		
	Hunt, B.	Long term pensioners		
	Schrieber, H.	Long term pensioners		
	Switzer, F.	Long term pensioners		
	McEdwards, J.	Disability pension		
	Wetherelt, A.	Disability pension		
	Cheatley, G.	Survey Assistant (Casual)	Office (Field)	
	Grotke, G.	Survey Assistant (Casual)	" "	
	Gibson, W. (Jr.)	Labourer (Casual)	Millgrove Depot	
	Finnamore, R.	Labourer (Casual)	"	
	Ferguson, D.	Labourer (Casual)	Rockton Depot	
	Shute, P.	Labourer (Casual)	Green Depot	
	Moos, C.	Labourer (Casual)		
	Deuxberry, J.	Despatcher (Casual)	Tapleytown Depot	To be employed during winter maintenance season commencing Nov. 18, 1973
	Jacobs, B.	" "	" "	
	Adshead, F.	" "	"	

NOTE: No personnel to be [illegible] from Municipalities or Commissions not [illegible].

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

PERSONNEL INVENTORY

OF

WATER, SEWAGE AND SOLID WASTE DISPOSAL WORKS

TABLE NO. 13

AREA		JOB DESCRIPTION	LOCATION BASED	
City of Hamilton	Milne, D. M.	Director of Maintenance	Elgin Street Yard	
	Roach, J. M.			
		Timekeeper and Cost Clerk		
		Stenographer IV		
		Information and Records Clerk		
	Boswell, P. V.			
	Boyd, D.	Assistant Foreman		
	Mills, R.			
	Thompson, C.			
	Carron, L.	Sub-Foreman		
	Davies, E.	Sub-Foreman		
	Gawylash, M.			
	Inrig, J.	Sub-Foreman		
		Sub-Foreman		
	MacDonald, G.	Sub-Foreman		
	O'Donnell, G.	Sub-Foreman (W. W. Shop)		
	Palmateer, E.			
		Sub-Foreman		
	Riley, A.			
	Rozanski, M.	Sub-Foreman		
	Sanec, M.			
	Tirmacco, D.			
	Ventresca, P.			
	Bould, G.			
	Harrison, A.	Water Works Inspector		
	Rose, J.			
	Roxburgh, H.			
	Boyer, R.			
	Farkas, J.			
	Irwin, R.	Water Works Troubleman		
	Sadlick, J.			
		Main Tap Repairman		
	Byers, L.	Water Service Tapper		
		Water Service Tapper		
		Water Service Tapper		
	Kovacs, J.	Water Service Tapper		
	Matteliano, V.	Water Service Tapper		
	Perino, V.	Water Service Tapper		
	Reid, W.	Water Service Tapper		
	Macaluso, J.	Hydrant Repairman		
	McKinney, R.			
	Omand, H.	Meter Reader		
	Gillman, B.	Hydraulic Backhoe Operator		
	Rogers, F.			
	Dean, C.	Labourer and Truck Driver		
	Hutching, J.	Labourer and Truck Driver		
	MacLean, A.	Labourer and Truck Driver		
	Tucci, V.	Labourer and Truck Driver		
	Addabbo, B.	Labourer		
	Blais, P.	Labourer		
	Barrelli, T.	Labourer		
		Labourer		
	Dean, R.			
	Didiodato, A.	Labourer		
	Emery, R.	Labourer		
		Labourer		
	Gallaher, J.	Labourer		
	Godin, E.			
		Labourer		
	Johnson, V.	Labourer		
		Labourer		
	Lettress, D.			
	MacDonald, D.	Labourer		
	Martins, J.	Labourer		
	Noworyta, S.			
		Labourer		
	Stawikowski, A.	Labourer		
	Traina, J.			
	Volovic, J.			
		Labourer		
	Zivanic, S.			
	Low, R.			
	Dawson, T.			
	Le Gallez, J.			
	Noon, J.	Shift Foreman		
		Operator I		
	Notto, S.	Operator I		
	Rattu, R.	Operator I		
	Downie, W.	Operator I		
		Filter Operator		
		Filter Operator		
	Zingaro, T.	Filter Operator		
	Doyle, W.			
	Heppenstall, R.			
	Karnas, S.			
	MacDonald, B.			

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

PERSONNEL INVENTORY

OPERATION & MAINTENANCE

OF

WATER, SEWAGE AND SOLID WASTE DISPOSAL WORKS

TABLE NO. 13A

				MARK
City of Hamilton				
	Koch, R.			
	Muir, R.			
	Knight, R.			
		Meter Repairman II		
	Brighouse, C.	Water Meter Clerk		
		Meter Reader		
	McIsaac, J.	Meter Reader		
	Baylis, E.	Labourer		
	Frisina, G.			
	Carolan, B.			
	Schwartz, I.			
	Harris, D., P. Eng.			
	Gross, N.	Sup't. Sewage Treatment Plant		
	Brander, E.			
	Laufman, R.			
	Rosamond, S.			
	Heelam, A.	Shift Foreman		
		Shift Foreman		
	White, R.			
	Bosnyak, J.			
	Sindall, A.	Operating Engineer III		
		Operating Engineer III		
	Lovato, A.	Operating Engineer III		
		Operating Engineer III		
	Iton, R.	Operating Engineer III (Relief)		
	Barras, G.	Operator I		
		Operator I		
	Donat, D.	Operator I		
	Panchezak,	Operator I		
	King, P.	Operator I		
	Watson, G.	Operator II		
	Kontrimas, A.	Operator II		
	Lombardo, C.	Operator II		
	Smith, F.	Operator II		
	Farraway, R.	Operator II		
	Richards, T.	Operator II		
	Laing, W.	Operator II		
		Operator II		
	Riley, L.	Operator II		
	Falla, R.	Operator II		
	Rogers, G.	Operator II		
	Edwards, D.	Operator II		
	McKay, J.	Operator II		
	Exley, H.	Operator II		
	Gilruth, E.	Operator II		
		Operator II		
	Bovaird, J.	Operator II		
	Chares, J.	Operator II		
	MacKinnon, L.	Operator II		
	Skedden, M.	Operator II		
	Eves, R.	Operator II		
		Operator II		
	McDonald, J. R.	Operator II		
		Labourer		
	Rogers, H.	Labourer		
		Labourer		
	Stanziani, L.	Labourer		
	Webb, D.			
		Labourer		
		Clerk Typist II		
	Hayes, J.			
	Nicosia, D.	Labourer		
		Labourer		
	Wilds, D.			
		Supervisor Sewer Maintenance	Elgin Street Yard	
	Hunter, G.	Foreman Sewer Maintenance		
	Le Brun, G.	Foreman Sewer Maintenance	Ottawa Street Yard	
	Spong, W.		Hill Street Yard	
	McInroy, A.			
			Gage Avenue Yard	
	Ciardullo, M.	Pipe Layer and Timberman	Hill Street Yard	
	Harris, P. W.	Pipe Layer and Timberman		
	Semple, P. L.	Truck Driver & Sewer Flusher	Hill Street Yard	
	Willis, R. B.		Ottawa Street Yard	
			Gage Avenue Yard	
	Cline, D. R.	Truck Driver - Labourer	Hill Street Yard	
		Labourer	Ottawa Street Yard	
	Exley, T. R.	Labourer	Hill Street Yard	
	Fratoni, J. V.			
	Haggerty, P.		Gage Avenue Yard	
		Labourer	Ottawa Street Yard	
	Monahan, D. S.		Hill Street Yard	
	Napoli, J.	Labourer	Gage Avenue Yard	
	Parsons, R. A.	Labourer	Ottawa Street Yard	
	Przybylo, E.	Labourer		
	Rinaldo, A. A.		Gage Avenue Yard	
	Sullivan, D. O.		Hill Street Yard	
	Maling, C.	Superintendent of Maintenance	Sewage Treatment Plant &	

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

OPERATION & MAINTENANCE

OF

WATER, SEWAGE AND SOLID WASTE DISPOSAL WORKS

TABLE NO. 13B

MUNICIPALITY	NAME	JOB	LOCATION BASED	GENERAL
City of Hamilton				
	Rhodes, S.	Maintenance Man I		
	Vasey, L.	Maintenance Man I		
	Walsh, P.	Maintenance Man II		
	Proctor, T.	Maintenance Man II		
	Paul, J.	Maintenance Man II		
	Tugby, W.	Maintenance Man II		
	Longstaff, D.	Maintenance Man II		
	Furry, W.	Maintenance Man II		
	Cullen, R.	Maintenance Man II		
	Johnstone, C.	Maintenance Man II		
	Karkowski, T.	Maintenance Man IV		
	Phillips, K.	Maintenance Man IV		
	Garland, A.	Labourer		
	Gnatyszyn, J.	Labourer		
	Lake, C.	Labourer		
	Piret, G.	Labourer		
	Navikevicius, J.	Labourer		
	Trapp, J.	Custodian		
	Saunders, H.	Manager & Chief Engineer	Solid Waste Reduction Unit	
	Flear, D.	Asst. Manager & Asst. Chief Engr.		
	Nathwani, J.	Clerk Typist & Receptionist		
	Kayser, H.	Shift Engineer II		
	Jardine, J.	Shift Engineer II		
	Manson, O.	Shift Engineer II		
		Operating Engineer III		
	Gibson, J.	Operating Engineer III		
	Snider, G.	Operating Engineer III		
	Carte, H.	Operating Engineer III		
	Goddard, G.	Shift Engineer Helper		
	Manson, O.	Shift Engineer II		
		Operating Engineer III		
	Carte, H.	Operating Engineer III		
	McDonald, C.	Operating Engineer III		
	Goddard, G.	Shift Engineer Helper		
		Shift Engineer Helper		
	Craig, J.	Shift Engineer Helper		
	Durney, E.	Shift Engineer Helper		
		Shift Engineer Helper		
	Tannourji, S.			
	Shanks, D.	Maintenance Man I		
	Cranston, W.	Maintenance Man II		
	Miller, L.	Welder II (non-certified)		
	Lintlot, R.	Maintenance Man IV		
	Geekie, W.	Floorman		
	Parkin, E.	Floorman		
	Gavey, D.	Labourer		
	Carter, E.	Labourer		
	Vidac, M.	Labourer		
	Howard, J.	Labourer		
	Green, N.	Labourer		
	Shaw, D.	Labourer		
	Vidac, M.	Labourer		
	Howard, J.	Labourer		
	Shaw, D.	Labourer		
	Montani, G.	Labourer		
	Bailey, P.	Labourer		
	Corbell, A.	Labourer		
	Edwards, R.	Labourer		
	Stockton, D.	Labourer		
	Reid, G.	Labourer		
	Damaron, A.	Labourer		
	Collins, J.	Labourer		
	Domenicone, D.	Labourer		
	MacDonald, J.	Labourer		
	Banakiewicz, J.	Labourer		
	Duckworth, R.	Labourer		
	Note: These two positions are yet to be filled: -	Shift Engineer II Operating Engineer III		)Additional Positions)
	Abram, J.	Dozer Operator		
	Czum, T.	Dozer Operator		
	Hayes, F.	Labourer		
	Kruck, P.	Dump Supervisor		
	Retired Employee	Dump Supervisor		
	Sauchuk, P.	Dozer Operator	East End Disposal Site	
	Jaggard, J.	Dump Supervisor	East & West Disposal Sites	Divided between two
			All three	Divided as required

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

OPERATION & MAINTENANCE

OF

WATER, SEWAGE AND SOLID WASTE DISPOSAL WORKS

TABLE NO. 13C

MUNICIPALITY	[illegible]	JOB [illegible]	[illegible]	[illegible]
Town of Dundas	[illegible]	Senior Plant Operator III	[illegible]	
	[illegible]	[illegible]	135 King Street East	
	Richmond	Plant Operator III	[illegible]	
	Dring, R. L.	Labourer	[illegible]	
	Calway, G.	[illegible]	[illegible]	On Workmens Compensation
	Shaw, J. L.	Sewage Maintenance Supervisor	[illegible]	50% Sewer 50% Garbage
	Dennis, J.	Sewage Maintenance Leadhand	[illegible]	50% Sewer 50% Garbage
	[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]	90% Sewer 10% Grabage
	Noakes, G.	Sewage Maintenance Labourer	[illegible]	90% Sewer 10% Garbage
	Foreman, S.	[illegible]	[illegible]	90% Sewer 10% Garbage
	[illegible]	[illegible]	[illegible]	
	Slater, C.	Waste Disposal Site Labourer and Watchman	[illegible]	
Town of Dundas Public Utilities Comm.	Langridge, G.	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]	
	Slote, E.	Machine Operator	[illegible]	
	Hill, H.	[illegible]	[illegible]	
Town of Stoney Creek	[illegible]	[illegible]	[illegible]	
	Bajoriunas, J.	[illegible]	[illegible]	
Village of Waterdown	Blazic, J.	[illegible]	[illegible]	
			[illegible]	Not to be transferred
[illegible]	Carson, S.	Waterworks Superintendent	[illegible] Commission	Part Time Employee
Township of Ancaster	[illegible]	Jerseyville Road Landfill Site	Jerseyville Road Landfill Site	
Township of Ancaster Public Utilities Comm.	[illegible]	[illegible]	Hydro Facilities	
Township of Binbrook	Clarke, H.	[illegible]	Township Dump	Part Time Employee
	Bortolotti, L.	[illegible]	Township Dump	[illegible]
Township of Glanford	[illegible]	[illegible]	Township Disposal Site	
Township of Saltfleet	Rogers, J. D.	Waterworks Supervisor	777 Highway #8, Fruitland	
	Lethbridge, J.	[illegible]	[illegible]	
	Lalonde, E.	[illegible]	[illegible]	
	Glover, S.	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]	
	Farraway, A.	Operator II	[illegible]	
	Keith, J.	Chief of Survey Crew	777 Highway #8, Fruitland	
	Brown, R.	Rodman - Survey Crew	" " " "	
				NOTE: No personnel to be [illegible] Municipalities or Commissions not [illegible]

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

MOBILE EQUIPMENT INVENTORY

ADMINISTRATION

OF

REGIONAL ROADS, WATER, SEWAGE & SOLID WASTE DISPOSAL WORKS

TABLE NO. 14

AREA MUNICIPALITY	DESCRIPTION OF EQUIPMENT RATED CAPACITY & YEAR	LOCATION BASED	GENERAL REMARKS
City of Hamilton	No. 8396 1972 Meteor 4-Door Sedan	City Hall	for W. A. Wheten
	No. 8701 1968 Dodge 4-Door Sedan	" "	for F. Feenstra
	No. 1360 1970 Plymouth - 4 Door	" "	for R. Younger
	No. 8323 1973 Dodge $\frac{1}{2}$-Ton Pickup	" "	for W. Jalowica
	No. 1370 1973 Dodge $\frac{1}{2}$-Ton Pickup (from car pool)	" "	for J. Clairmont
	No. 1341 1971 Dodge 4-Door Sedan (from car pool)	" "	for D. Milne
	No. 8394 1971 Fargo Van	" "	for Technical Services
	No. 1336 1971 Fargo Van	" "	for Technical Services
	No. 8361 1972 International Carryall	" "	for Surveys
	No. 8363 1972 International Carryall	" "	for Surveys
	No. 8364 1973 International Carryall	" "	for Surveys
	No. 8373 1970 International Carryall	" "	for Surveys
	No. 8761 1972 International Carryall	" "	for Surveys
County of Wentworth	No. 631 1973 Pontiac	Court House, Hamilton	for County Engineer
	No. 632 1973 Pontiac	" " "	for Road Supervisor
			NOTE: No equipment to be assumed from Municipalities or Commissions not listed hereon.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

OPERATION & MAINTENANCE

OF

TABLE NO. 15

AREA MUNICIPALITY	DESCRIPTION OF EQUIPMENT RATED CAPACITY & YEAR	LOCATION BASED	GENERAL REMARKS
County of Wentworth	Utility Truck - 100, ½ Ton '73 Dodge Pickup	West Flamborough	
	Dump Truck - 101, GVWR = 32000 lb '73 International	West Flamborough	
	Dump Truck - 102, GVWR = 32000 lb		
	Dump Truck - 103, GVWR = 32000 lb '68 International	Millgrove Maintenance Depot	To be replaced Dec 1973 with 28000 lb GVWR International with 2-way Body
	Dump Truck - 104, GVWR = 32000 lb '68 International	West Flamborough	To be replaced Dec 1973 with 28000 lb GVWR International with 2-way Body
	Dump Truck - 105, GVWR = 22000 lb '65 International Platform	Millgrove Maintenance Depot	To be replaced Nov 1973 with 17100 lb GVWR International Stake
	Dump Truck - 106, GVWR = 32000 lb '72 Dodge with plough & wing		
	Dump Truck - 201, GVWR = 32000 lb '67 International with plough & wing		
	Dump Truck - 202, GVWR = 32000 lb '73 International with plough & wing	Rockton Maintenance Depot, Beverly	
	Dump Truck - 203, GVWR = 32000 lb '69 International with plough & wing	Rockton Maintenance Depot, Beverly	
	Dump Truck - 301, GVWR = 32000 lb '69 International with plough & wing	Fiddler's Green Maintenance Depot	To be replaced in Dec 1973 with 27500 lb GVWR Chrysler Dump Truck with plough and wing
	Dump Truck - 302, GVWR = 32000 lb '69 International with plough & wing	Fiddler's Green Maintenance Depot Ancaster	1969 Dump Truck to be retained as 303 to replace truck burned out in accident Truck 302 to be replaced Dec 1973 with 27500 lb GVWR Chrysler Dump Truck with plough and wing
	Dump Truck - 303, GVWR = 32000 lb '71 Fargo with plough & wing	Fiddler's Green Maintenance Depot Ancaster	Completely burned out in accident
	Dump Truck - 304, GVWR = 32000 lb	Fiddler's Green Maintenance Depot Ancaster	
	Dump Truck - 305, GVWR = 32000 lb '73 International + Hopper sand spreader	Ancaster	
	Dump Truck - 401, GVWR = 32000 lb '67 International with plough & wing	Tapleytown Maintenance Depot	To be replaced Dec 1973 with 43000 lb GVWR Chrysler Tandem Dump Truck with plough and wing
	Dump Truck - 402, GVWR = 32000 lb '68 Chevrolet with plough & wing	Tapleytown Maintenance Depot	
	Dump Truck - 403, GVWR = 32000 lb '66 International with plough & wing	Tapleytown Maintenance Depot Saltfleet	To be replaced in Dec 1973 with 27500 lb GVWR Chrysler Dump Truck with plough and wing
	Dump Truck - 404, GVWR = 32000 lb		
	Utility Truck - 200, ½ Ton		
	Utility Truck - 300, ½ Ton '73 Dodge Pickup	Fiddler's Green Maintenance Depot Ancaster	
	Utility Truck - 400, ½ Ton '69 Chevrolet Pickup		To be replaced in Nov 1973 with
	Four-Wheel Drive Truck - 110 GVWR = 32000 lb '69 International with plough & wing	Millgrove Maintenance Depot	
	Four-Wheel Drive Truck - 310 GVWR = 32000 lb '70 International with plough & wing	Fiddler's Green Maintenance Depot Ancaster	
	Gradall Excavator - 121, GVWR = 35000lb	Millgrove Maintenance Depot	
	GVWR = 43455 lb, Schield Bantam		
	Dump Truck - 122, GVWR = 32000 lb '73 International with Etnyre Distributor or Hopper-sandspreader plough & wing		
	Dump Truck - 123, GVWR = 27000 lb Distributor or Hopper-sandspreader	Millgrove Maintenance Depot West Flamborough	
	½ Ton Van No. 825, GVWR = 5500 lb '71 Dodge	Millgrove Maintenance Depot	
	½ Ton Van No. 826, GVWR = 5500 lb '71 Dodge	Fiddler's Green Maintenance Depot Ancaster	
	Traffic Liner Trailer, GVWR = 2000 lb '68 Homemade		
	Steam Jenny Trailer, GVWR = 2000 lb '68 Homemade		
	Highway Liner Truck, GVWR = 28000 lb '58 Chevrolet	Millgrove Maintenance Depot	

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

MOBILE EQUIPMENT INVENTORY

OPERATION & MAINTENANCE

OF

REGIONAL ROADS

TABLE NO. 15A

AREA MUNICIPALITY	DESCRIPTION OF EQUIPMENT RATED CAPACITY & YEAR	LOCATION BASED	GENERAL REMARKS
County of Wentworth	[illegible] MB Corporation Master (Wisconsin)	Millgrove Maintenance Depot West Flamborough	Inadequate for present needs
	Traffic Liner - 424, Manual type	[illegible]	
	Steam Jenny - 125, 750 OES Steam Cleaner, w/34-107 Marquette [illegible]	[illegible]	
	Steam Jenny - 225, 750 OMP Steam Cleaner	[illegible]	
	Steam Jenny - 325, 760 OMP Steam [illegible]	[illegible] Ancaster	
	Steam Jenny - 425, 750 OES Steam [illegible]	Tapleytown Maintenance Depot Saltfleet	
	Three-Wheel Steel Roller - 326 GVWR = 18,600, Austin Western	Fiddler's Green Maintenance Depot Ancaster	[illegible]
	Single Unit Steel Roller - 327 GVWR = 6,000, Gallion Portable	[illegible] Ancaster	[illegible]
	Rubber-tired Pneumatic Roller - 129 11 Ton (7230 - 25350 lbs.)	Millgrove Maintenance Depot [illegible]	
	Mower - 128, Self-propelled '66 International Model B-275	[illegible]	
	Mower - 328, Self-propelled '70 International Model 276	Fiddler's Green Maintenance Depot Ancaster	
	Mower - 428, Self-propelled '69 International Model 276	[illegible]	
	Front End Loader - 136, '70 Aveling Barford Model TS175 1-3/4 yds, 4 x 4 Diesel	Millgrove Maintenance Depot West Flamborough	
	Front End Loader - 236 '73 Aveling Barford Model TS175 1-3/4 yds, 4 x 4 Diesel	Rockton Maintenance Depot, Beverly	
	Front End Loader - 336 '65 Chaseside Model SL1000 w/Ford 590 E 6-cyl., Diesel engine	[illegible] Ancaster	
	Front End Loader - 436 [illegible] 1-3/4 yds, 4 x 4 Diesel	[illegible]	
	Chip Spreader - 340, Flaherty	Fiddler's Green Maintenance Depot Ancaster	
	Pelican Sweeper - 1041 '69 Elgin	[illegible]	
	'69 Case Tractor - 1049 with Hydraulic lift, mower, & [illegible]	Millgrove Maintenance Depot [illegible]	
	Road Grader - 120 '50 Champion Model D483	[illegible]	
	Road Grader - 320 '55 Dominion 6x4 Model, with [illegible]	Fiddler's Green Maintenance Depot Ancaster	
	Road Grader - 420 '64 Champion Model D600, with snow plough & rear mounted wing	[illegible]	
	[illegible] ck[illegible]	[illegible] West Flamborough	
	[illegible]	[illegible]	
	Weed Spraying Unit, Hy-ride boom [illegible]	Rockton Maintenance Depot, Beverly	
	[illegible]	Millgrove Maintenance Depot [illegible]	
	Grader, Pull type, Sawyer Massey	[illegible]	
			NOTE: No equipment to be assumed from Municipalities or Commissions not listed hereon.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

MOBILE EQUIPMENT INVENTORY

OPERATION & MAINTENANCE

OF

WATERWORKS

TABLE NO. 16

AREA MUNICIPALITY	DESCRIPTION OF EQUIPMENT RATED CAPACITY & YEAR	LOCATION BASED	GENERAL
City of Hamilton	No. 8784 Backhoe Loader (hydraulic) 1967 Massey Ferguson No. 8781 Hydraulic Backhoe Loader 1972 John Deere Two - 4-Wheeled Electric Generators One - 2-Wheeled Emergency Water Supply Tank One - Cast Iron Power Tapping Machine (4 in. to 12 inches) One - Hand Operated Tapping Machine (4 to 16 inches) Two - Hydraulic Valve Turning Machines (Mounted on Valve & Service Trucks 8716 & 8754) One - 15 H.P. Boring Machine Two - Air-operated Pipe Cutting Saws Four - Hydrant Thawing Steam Boilers Six - Portable Air Compressors No. 8783 1967 Mercury 3-Ton Dump Truck No. 8310 1972 Dodge 3-Ton Dump Truck Dump Truck No. 8752 1971 International 1½ Ton Stake Truck No. 8753 1971 International 1½ Ton Stake Truck No. 8750 1971 Chevrolet 1-Ton Dump Truck No. 8717 1969 International 1-Ton Dump Truck No. 8758 1972 Chevrolet 1-Ton Dump Truck No. 8754 1972 Dodge 1-Ton Pickup Truck No. 8716 1968 Mercury 3/4 Ton Pickup Truck No. 8718 1969 International ½ Ton Panel Truck No. 8760 1972 Ford ½ Ton Pickup Truck No. 8756 1972 Ford ½ Ton Pickup Truck No. 8716 1969 International ½ Ton Panel Truck No. 8707 1973 GMC ½ Ton Pickup Truck No. 8755 1972 Mercury Van No. 8720 1970 Chevrolet Car No. 8719 Mercury Pickup No. 8702 1973 Dodge Panel Van No. 8353 Ford Panel Van No. 8354 Dodge Pickup No. 8355 Dodge Panel Van No. 8357 Dodge Panel Van	234 Elgin Street	
Town of Dundas Public Utilities Commission	1973 Dodge G.V.B. 12,000-Service Body 1967 Chevrolet - Dump Truck with Weight 27,000 1967 Chevrolet 3/4 Ton with Service Body Allis Chalmers D15 Tractor with Compressor & Front End Loader (1963)	Service Centre - Park St. Dundas	Service Centre owned by Hydro Dept.
Township of Ancaster Public Utilities Commission	1970 Chevrolet 3/4 Ton Truck with Service Body 1973 Dodge 3/4 Ton Chassis with Service Body		
Township of Saltfleet	1971 Fargo Van 1968 Mercury Dump Truck 1970 Fargo Pickup Truck 1968 Plymouth Fury Case Tractor 1974 Dodge Dump & Hoist		On order - Delivery October 1973 NOTE: No equipment to be assumed from Municipalities or Commissions not listed

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

MOBILE EQUIPMENT INVENTORY

OF

TABLE NO. 17

AREA MUNICIPALITY	DESCRIPTION OF EQUIPMENT RATED CAPACITY & YEAR	LOCATION BASED	GENERAL REMARKS
City of Hamilton	No. 8681 Sewer Bucket Machine . 8682 Sewer Bucket Machine . 8683 Truck Loader . 8684 Sewer Rodding Machine . 8685 Sewer Rodding Machine - Portable Air Compressors . 8306 1969 Chevrolet 3-Ton Dump Truck Dump Truck . 8751 1971 Chevrolet 1-Ton Dump Truck . 8307 1970 Ford 3/4-Ton Pick-up . 8322 1973 GMC 3/4-Ton Pick-up . 8301) 1970 Dodge Sewer Flusher 8302) Panel Van Panel Van . 8379 Ford Pick-up 20-Ton Sludge Truck 20-Ton Sludge Truck Tractor Dodge Panel Van	234 Elgin Street "	
Town of Dundas	1 - 1966 Ford Pick-up 5200 GVW 1 Small, 2-Wheeled Trailer 1 1973 International 5200 GVW PU 1 - Electric Auger w/100' x 3/4" Flex Cable w/cutters, etc. 1 Power Rodder, gas driven w/1000' x 3/8" continuous steel rod 1 Gas Engine for sectional rods sectional steel rod 1 Bucket Machines - Turbine Sewer Bucket Machine w/750' x	Sewage Treatment Plant, Works Yard 135 King Street East "	NOTE: No equipment to be assumed from Municipalities or

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

MOBILE EQUIPMENT INVENTORY

OPERATION & MAINTENANCE

OF

SOLID WASTE DISPOSAL WORKS

TABLE NO. 18

AREA	DESCRIPTION OF EQUIPMENT	LOCATION BASED	GENERAL
City of Hamilton	1964 Allis-Chalmers H.D. 21 Dozer (#9633)	Mountain Disposal Site	Hourly rented equipment presently on site.
	1967 Allis-Chalmers H.D. 11 Dozer	West End Disposal Site	West End Site almost completed. This equipment will then be transferred to the Upper Ottawa Site.
	1966 Allis-Chalmers H.D. 11 Dozer	East End Disposal Site	East End Site almost completed. This equipment will then be transferred to the Upper Ottawa Site.
Town of Dundas	1969 TS15B Hitachi - 2-½ Yard Front End Loader	In Workyard and Travels daily to Dump	
Township of Ancaster	1970 International Model 175	Jerseyvill Road Landfill Site	
Township of Saltfleet	1962 Front End Loader - Allis-Chalmers Model HD 7G-100,	At Disposal Site and at work yard, on Jones Road.	
Township of West Flamborough	Traxcavator - Caterpillar	Township Dump	50% Road - 50% Landfill
			NOTE: No equipment to be assumed from Municipalities or Commissions not listed

SECTION 3 - FINANCE AND RELATED INFORMATION

3.1. Outstanding Debt

The legislation of the Regional Municipality of Hamilton-Wentworth, Sections 50(2), 76(4), 77(4), and 131(4) directs that the Regional Corporation shall, after January 1, 1974 pay to the corporation of the area municipality before the due date, all amounts of principal and interest becoming due upon any outstanding debt of such area municipality in respect to the property being assumed by the Regional Corporation under the provision of these sections. There is, however, no obligation for the Regional Corporation to pay that portion of the amount of principal and interest that under the Local Improvement Act is payable as the owner's share of the local improvement work.

The details of the outstanding debts on the water, sewage, drainage and solid waste disposal works that are to be assumed by the Regional Corporation have been listed in Tables 19, 20, 21, and 22, and are appended at the end of this section. The regional roads system that is to be assumed by the Regional Corporation has no outstanding debts.

The tables indicate that the Regional Corporation will assume the following outstanding debts as of January 1, 1974:

i). A Regional Waterworks System with a total outstanding debt of $28,257,069 with principal and interest payments due in 1974 of $1,384,226 and $2,053,102 respectively for a total amount due in 1974 of $3,437,328.

ii) A Regional Sewage System with a total outstanding debt of $32,891,363 with principal and interest payments due in 1974 of $1,415,993 and $2,323,901 respectively for a total amount due in 1974 of $3,739,894.

iii) A Storm Sewer System in the City of Hamilton with a total outstanding debt of $661,114 with principal and interest payments due in 1974 of $29,124 and $51,118 respectively for a total amount due in 1974 of $80,242.

iv) A Solid Waste Disposal System with a total outstanding debt of $7,975,493 with principal and interest payments due in 1974 of $255,012 and $656,905 respectively for a total amount due in 1974 of $911,917.

The total outstanding debt on the works assumed by the Regional Corporation is therefore $69,785,039 with total principal and interest payments due in 1974 of $3,084,355 and $5,085,026 respectively for a total amount due in 1974 of $8,169,381.

The reserve fund payments, for projects financed through the Ministry of the Environment, on parts thereof, that pertain to work assumed by the Regional Corporation have been included as part of the 1974 payments. Payments to 'Reserves for Contingencies' however have not been included as the amount involved will not be known until early in 1974.

In several instances where the works to be assumed by the Regional Corporation have been financed together with other work of a local nature it has been necessary to establish those parts of the total costs which are a regional responsibility. The costs of these regional works have been pro-rated as a percentage of the total costs of the works as obtained from the area municipalities. These percentages have been applied against principal, interest and reserve funds (where applicable) to determine the debt charges for the regional works only, the remainder of the payments being purely local in nature.

These debenture breakdowns have been tentatively confirmed by the local municipal representatives, but written confirmation should be obtained by the Regional Treasurer, that the amounts shown in this report accurately represents the monies owing against the works

If in the future the Regional Corporation assumes any additional roads as part of the regional roads system then the Regional Corporation should pay to the area municipality payments of principal and interest relating to the outstanding debt at the date of assumption of these roads.

3.2. Costs of Operation

The estimated 1974 costs of operation for regional works have been listed in Tables 23, 24, 25, and 26, which are located at the end of this section. These costs include operation, maintenance, administration and debt charges. The 1974 estimates are based on 1973 estimates with an allowance for the escalation in cost of labour and power, as well as an allowance for the cost of new facilities coming into operation in 1974. No allowance has been made for possible additional debenture issues in 1974.

3.3. Reserve Funds

As noted in Section 3.1., the Regional Corporation should continue to contribute to the reserve fund for those Ministry of the Environment projects which are being assumed by the Regional Corporation.

3.4. Monies to be Collected

The regional water and sewage facilities should be self supporting. It is, therefore, necessary that the Regional Corporation recover all anticipated costs during 1974 related to these works.

It is, therefore, recommended that the Regional Corporation adopt rates and charges to recover all debenture debt, operation, maintenance and administration costs related to these facilities that may normally be encountered during the coming year.

3.4.1. Regional Road Costs

The cost of regional roads will be included in the general levy which will be apportioned among the area municipalities on an equalised assessment basis in accordance with Section 81 (3) of Bill 155. The levy will be established when final assessment information is available from the Ministry of Revenue.

3.4.2. Water Rates

A preliminary review of the existing water rate structures indicates that the revenue generated by these rates should be sufficient to meet the existing debenture debt as well as the operation, maintenance and administration costs for 1974.

It is, therefore, recommended that the existing water rates in each serviced area of each area municipality which are in effect on December 31, 1973 be continued through 1974.

There are many factors used in the establishment of water rates which are not easily determined and which vary with each municipality. It is, therefore, recommended that all water rates be reviewed as soon as possible as part of a detailed water rate study as recommended in Section 4.

The serviced areas of each area municipality which are generally based on the old municipal boundaries are shown on Drawing No. 6 located at the end of this section.

3.4.3. Regional Sewage Charges

It is recommended that by-laws be prepared and adopted by the Regional Corporation as outlined in Section 77 (6) to provide for imposing on and collection from any area municipality in respect to the whole of such area municipality or any designated part thereof from which sewage is received, a sewage charge sufficient to pay the whole, or such portion as the by-law may specify, of the regional expenditures for the maintenance, operation and debt revenue of the regional sewage system. The estimated sewage charge for each area municipality for 1974 is as follows:

City of Hamilton	$6,788,503.
Town of Dundas	$ 220,000.
Town of Stoney Creek	$ 288,937.
Township of Flamborough	$ 76,306.
TOTAL	$7,373,746.

For the purposes of computing the sewage charge against any area municipality the regional sewage system has been divided into the areas as shown on Drawing No. 7, which is appended to this section. These serviced areas are generally based on the former municipal boundaries.

It is the responsibility of the Councils of the area municipalities to decide how the costs of the sewage charge imposed by the Regional Corporation are to be raised within their own area municipality.

3.4.4. Regional Storm Sewer Charge

The costs of the operation, maintenance and debt charges of the storm sewer system assumed from the City of Hamilton should be charged back to the City of Hamilton. This will require enabling legislation to be passed by the Legislative Assembly of the Province of Ontario.

The estimated cost to be charged back to the City of Hamilton for 1974 is $352,242. as shown on Table No. 27 which is appended to this section. This amount of $352,242. is included in the sewage charge to be assessed against the City of Hamilton as outlined in Section 3.4.3. and detailed in Table No. 25.

This storm sewer charge should be reviewed on an annual basis and should be based on a detailed study that should be carried out as recommended in Section 4.

3.4.5. Regional Solid Waste Disposal Costs

The costs of the administration, operation, maintenance and debt charges of the solid waste disposal facilities will be included in the general levy which will be apportioned among the area municipalities on an equalised assessment basis in accordance with Section 81 (3) of Bill 155.

On an interim basis, it is recommended that the fees charged to private contractors which are in effect on December 31, 1973 be continued throughout 1974.

The Regional Corporation should now stand in place of the Village of Waterdown and the Township of East Flamborough in their agreements with the Town of Burlington for the disposal of solid waste. It is assumed that the responsibility formerly assumed by the Town of Burlington will now be taken over by the Regional Municipality of Halton.

3.5. Billing Procedures

It is recommended that the Treasurer for the Region meet with the Treasurers of the area municipalities to determine if the method and scheduling of payments outlined below is appropriate.

3.5.1. Regional Road and Solid Waste Disposal Charges

These charges will be included as part of the regional levy and will be collected in accordance with Section 81 (3) of Bill 155.

3.5.2. Water Rates

On an interim basis the billing procedures presently followed by the area municipalities should continue. On this basis the billing should be done by the area municipality or Public Utilities Commission and the monies so raised forwarded to the Regional Corporation on a basis to be approved.

3.5.3. Sewage Charges

The Regional Corporation should bill each area municipality in accordance with the by-law passed under Section 77 (6) of Bill 155.

3.5.4. Storm Sewer Charge

The Regional Corporation should bill the City of Hamilton in accordance with the new legislation which should be requested by the Regional Corporation from the Legislative Assembly of the Province of Ontario.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

DEBT ASSUMED AS AT JANUARY 1, 1974

WATERWORKS

TABLE NO. 19

ASSUMED FROM MUNICIPALITY	PRINCIPAL OUTSTANDING JANUARY 1, 1974	DEBT CHARGES - 1974		
		PRINCIPAL	INTEREST	TOTAL
	$	$	$	$
City of Hamilton	26,475,240.	1,249,206.	1,903,527.	3,152,733.
Town of Ancaster	[illegible]	[illegible]	[illegible]	[illegible]
Town of Dundas	837,343.	29,376.	76,606.	105,982.
Town of Stoney Creek				
formerly Town of Stoney Creek	20,595.	10,812.	695.	11,507.
formerly Township of Saltfleet	725,191.	60,454.	53,107.	113,561.
Sub-Total	[illegible]	[illegible]	[illegible]	[illegible]
Township of Flamborough				
formerly Village of Waterdown	49,400.	[illegible]	[illegible]	[illegible]
formerly Township of East Flamborough	-	-	-	
formerly Township of West Flamborough	-	-	-	-
formerly Township of Beverly	-	-	-	-
Sub-Total	49,400.	[illegible]	[illegible]	[illegible]
Township of Glanbrook				
formerly Township of Binbrook	-	-		-
formerly Township of Glanford	-	-	-	-
[illegible]	[illegible]	[illegible]	[illegible]	[illegible] (1)

NOTE:

(1) Includes payments due under agreements with the Ministry of the Environment. These accounts are billed quarterly by the Ministry, and will be adjusted to include an additional charge for 'Reserve for Contingencies' and a credit for accumulated interest in the 'Debt Retirement Fund'.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

DEBT ASSUMED AS AT JANUARY 1, 1974

SANITARY SEWAGE WORKS

TABLE NO. 20

ASSUMED FROM MUNICIPALITY	PRINCIPAL OUTSTANDING JANUARY 1, 1974	DEBT CHARGES		
		PRINCIPAL	INTEREST	[illegible]
	$	$		
City of Hamilton	30,177,071.	1,328,770.	[illegible]	[illegible]
Town of Ancaster formerly Township of Ancaster		-		
Town of Dundas	350,151.	[illegible]	[illegible]	[illegible]
Town of Stoney Creek [illegible] (1) formerly Township of Saltfleet Sub-Total	[illegible] 1,746,415. 1,827,766.	[illegible] 45,962. 50,928.	[illegible] 137,535. 143,009.	[illegible] 183,497. 193,937.
Township of Flamborough formerly Village of Waterdown formerly Township of East Flamborough formerly Township of West Flamborough formerly Township of Beverly Sub-Total	536,375. - - - 536,375.	8,760. - - - 8,760.	40,546. - - - 40,546.	49,306. - - - 49,306.
Township of Glanbrook formerly Township of Binbrook formerly Township of Glanford	[illegible] [illegible]	- [illegible]	-	[illegible] [illegible]
TOTAL	32,891,363.	1,415,993.	2,323,901.	3,739,894. (2)

(1) Certain projects are being assumed by the Ministry of the Environment. Final details are not yet settled, but the Ministry will charge a rental fee for the use of the facilities.

(2) Includes payments due under agreements with the Ministry of the Environment. These accounts are billed quarterly by the Ministry, and will be adjusted to include an additional charge for 'Reserve for Contingencies' and a credit for accumulated interest on the 'Debt Retirement Fund'.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

DEBT ASSUMED AS AT JANUARY 1, 1974

STORM SEWER WORKS
(CITY OF HAMILTON)

TABLE NO. 21

ASSUMED FROM MUNICIPALITY	PRINCIPAL OUTSTANDING JANUARY 1, 1974	DEBT CHARGES - 1974		
		PRINCIPAL	INTEREST	TOTAL
	$	$	$	$
City of Hamilton	661,114.	29,124.	51,118.	80,242.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

DEBT ASSUMED AS AT JANUARY 1, 1974

SOLID WASTE DISPOSAL WORKS

TABLE NO. 22

ASSUMED FROM MUNICIPALITY	PRINCIPAL OUTSTANDING JANUARY 1, 1974	DEBT CHARGES - 1974		
		PRINCIPAL	INTEREST	TOTAL
	$	$	$	$
City of Hamilton	7,975,493.	255,012.	656,905.	911,917.
Town of Ancaster	--	--	--	--
Town of Dundas	--	--	--	--
Town of Stoney Creek				
formerly Town of Stoney Creek	--	--	--	--
formerly Township of Saltfleet	--	--	--	--
Township of Flamborough				
formerly Village of Waterdown	--	--	--	--
formerly Township of East Flamborough	--	--	--	--
formerly Township of West Flamborough	--	--	--	--
formerly Township of Beverly	--	--	--	--
Township of Glanbrook				
formerly Township of Binbrook	--	--	--	--
formerly Township of Glanford	--	--	--	--
TOTAL	7,975,493.	255,012.	656,905.	911,917.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

ESTIMATED COST OF OPERATION FOR 1974

REGIONAL ROADS

TABLE NO. 23

COUNTY OF WENTWORTH ROADS DEPARTMENT AND THE HAMILTON-WENTWORTH SUBURBAN ROADS COMMISSION			
Estimates 1973:			
Operation and Maintenance	$1,178,100.		
Capital Expenditures from Current Funds	869,900.	$2,048,000.	
Less: Provincial Subsidy		853,000.	
Total Estimates 1973			$1,195,000.
Estimates 1974:			
Operation and Maintenance	$1,010,000.		
Capital Expenditures from Current Funds	1,390,000.	$2,400,000.	
Less: Provincial Subsidy		985,000.	
Total Estimates 1974			$1,415,000.

NOTE:
The cost of road operations will be included in the general levy and will be apportioned among the area municipalities on an equalised assessment basis in accordance with Section 81 (3) of Bill 155.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

ESTIMATED COST OF OPERATION FOR 1974

OF

WATERWORKS

TABLE NO. 24

MUNICIPALITY	ESTIMATES 1973	ESTIMATES 1974			
		OPERATION AND MAINTENANCE	EXPENDITURES FROM CURRENT FUNDS	DEBENTURE DEBT CHARGES	[illegible]
	$	$	$	$	$
City of Hamilton	8,158,920.	3,612,500.	905,000.	3,152,733.	7,670,233.
Town of Ancaster					
formerly Township of Ancaster	220,000.	167,552.	35,000.	42,448.	245,000.
Town of Dundas	576,000.	444,018.	30,000.	105,982.	580,000.
Town of Stoney Creek					
formerly Town of Stoney Creek	100,000.	92,000.	-	11,507.	103,507.
formerly Township of Saltfleet	440,000.	310,000.	-	113,561.	423,561.
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
Township of Flamborough					
[illegible]	[illegible]	[illegible]	-	[illegible]	[illegible]
formerly Township of East Flamborough	-	-	-	-	-
formerly Township of West Flamborough	-	-	-	-	-
formerly Township of Beverly	-	-	-	-	-
	61,670.	53,903.	-	11,097.	65,000.
Township of Glanbrook					
formerly Township of Binbrook	-		-		
formerly Township of Glanford	-	-	-		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible] (1)	[illegible]

NOTE:

(1) Does not include any allowance for possible debenture issues in 1974.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

ESTIMATED COST OF OPERATION FOR 1974

OF

SANITARY SEWAGE WORKS
AND
STORM SEWER WORKS IN THE CITY OF HAMILTON

TABLE NO. 25

MUNICIPALITY	ESTIMATES 1973	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible] AND MAINTENANCE	[illegible] FROM CURRENT FUNDS	DEBT CHARGES	TOTAL
	$	$	$	$	$
(1) City of Hamilton	8,529,455.	3,139,730.	203,000.	3,445,773.	6,788,503.
Town of Ancaster					
formerly Township of Ancaster	-	-	-		-
Town of Dundas	208,500.	169,122.		[illegible]	[illegible]
Town of Stoney Creek					
formerly Town of Stoney Creek	31,434.	[illegible]		10,440.	20,440.
(3) formerly Township of Saltfleet	160,700.	[illegible]	-	183,497.	268,497.
Sub-Total	192,134.	[illegible]	-	193,937.	288,937.
Township of Flamborough					
(2) formerly Village of Waterdown	25,500.	27,000.	-	49,306.	76,306.
formerly Township of East Flamborough	-	-	-	-	-
formerly Township of West Flamborough	-	-	-	-	-
formerly Township of Beverly	-	-	-	-	-
Sub-Total	25,500.	27,000.	-	[illegible]	[illegible]
Township of Glanbrook					
formerly Township of Binbrook	-	-	-	-	-
formerly Township of Glanford	-	-	-	-	-
[illegible]	8,955,589.	3,430,852.	[illegible]	[illegible]	[illegible]

[illegible]:

(1) Includes storm sewer operations in the City of Hamilton - See Table No. 27 for separate breakdown

(2) Facilities operated by the Ministry of the Environment and the costs are billed quarterly by the Ministry.

(3) Operation and maintenance costs are fully recovered by a sewer surcharge on the water bills.

(4) Does not include any allowance for possible debenture issues in 1974.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

ESTIMATED COST OF OPERATION FOR 1974

OF

[illegible]

TABLE NO. 26

MUNICIPALITY	ESTIMATES 1973	ESTIMATES [illegible]			
		OPERATION AND MAINTENANCE	CAPITAL EXPENDITURES FROM CURRENT FUNDS	DEBENTURE DEBT CHARGES	TOTAL
	$	$	$	$	$
City of Hamilton	[illegible]	[illegible]		[illegible]	[illegible]
Town of Ancaster formerly Township of Ancaster	[illegible]	[illegible]	-	-	[illegible]
Town of Dundas	[illegible]	14,000.	-	-	[illegible]
Town of Stoney Creek					
formerly Town of Stoney Creek	4,000.	4,500.	-	-	[illegible]
formerly Township of Saltfleet	44,910.	60,000.	-	-	[illegible]
Sub-Total	48,910.	64,500.	-	-	64,500.
Township of Flamborough					
(i) formerly Village of Waterdown	-	-	-	-	-
(i) formerly Township of East Flamborough	-	-	-	-	-
formerly Township of West Flamborough	7,000.	10,000.	-	-	[illegible]
formerly Township of Beverly	9,720.	10,500.	-	-	10,500.
Sub-Total	16,720.	20,500.	-	-	20,500.
Township of Glanbrook					
formerly Township of Binbrook	7,[illegible].	8,500.	-	-	8,500.
formerly Township of Glanford	[illegible].	5,000.	-	-	5,000.
Sub-Total	12,[illegible].	13,500.	-	-	13,500.
TOTAL	1,929,100.	1,319,500.	-	911,917.	[illegible]
				(ii)	(iii)

NOTE:

(i) The Village of Waterdown and the Township of East Flamborough use disposal facilities of the Town of Burlington and pay disposal charges on a tonnage basis. In addition, the Village of Waterdown pay to Burlington a .50 cent per capita fee (approximately $1200) towards the capital cost of Burlington's disposal site.

(ii) Does not include any allowance for possible debentures issued in 1974.

(iii) The cost of solid waste disposal works (including debt charges) will be included in the general levy and will be apportioned among the area municipalities on an equalised assessment basis in accordance with Section 81 (3) of Bill 155.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

ESTIMATED COST OF OPERATION OF STORM SEWER WORKS
TO BE CHARGED TO THE CITY OF HAMILTON FOR 1974

TABLE NO. 27

Estimated Costs for Sewer Maintenance in 1974	$326,050.		
Administration overhead: 25% of $587,980.	146,995.		
TOTAL	$473,045.		
Total Miles of Sewers at December 31, 1972 in the City of Hamilton		638	
Miles of Storm Sewers at December 31, 1972		103	
Percentage of Storm Sewer Miles to Total Miles - Say		15%	
Costs to be Charged to the City of Hamilton in 1974:			
15% of $473,045.			$ 70,956.
50% of $402,089. ($473,045. - $70,956.)			201,044.
Total Chargeback for Operations			$272,000.
Debt Charges for 1974			80,242.
TOTAL CHARGEBACK			$352,242.

NOTE: Above calculations compiled from information supplied by the Department of Engineering, City of Hamilton.

Regional Road System

Legend

Regional Roads

Maintenance Yards

Regional Water Systems

Legend

1. City of Hamilton System
2. Town of Stoney Creek Area 1
3. Town of Stoney Creek Area 2
4. Township of Flamborough Area 1
5. Township of Flamborough Area 2
6. Town of Dundas System
7. Town of Ancaster Area 1
8. Town of Ancaster Area 2

Regional Sewer Systems

Legend

- City of Hamilton
- Town of Stoney Creek
- Township of Flamborough
- Town of Dundas System
- Town of Ancaster System (proposed)

SECTION 4 - FUTURE ACTION

4.1 Engineering and Related Studies

The study carried out to date, as outlined in this report, will serve to provide the Regional Corporation with inventories of regional roads, water, sewage, drainage and solid waste disposal works to be assumed by the Regional Corporation as of January 1, 1974. It also provides the Regional Corporation with information on personnel and interim measures necessary to operate and maintain such regional roads and works, a recommended organization for the Regional Department of Engineering and the current status of the financing of the roads and works being assumed.

The problems associated with servicing, existing and future developments, will continue to be many and varied. Successful integration of land use planning, servicing and financial budgeting is the desired objective of all Councils but is particularly important in the Regional Municipality of Hamilton-Wentworth because of the existing and future growth pressures in this area.

This study has revealed that several works within the region require early attention in order to provide adequate service to existing and proposed development areas of the region and that in some instances expansion and modification of these works is already in the planning stage. With the formation of the Regional Corporation, the development of these works can now be accomplished on a more co-ordinated basis taking advantage of the economies of scale while avoiding the problems associated with area municipal boundaries.

Certain local problems, particularly in water supply, sewage disposal and solid waste disposal will require early attention. It will also be necessary for the Regional Corporation to examine the adequacy

of existing works in relation to present and future requirements and to determine the additional works necessary to meet future needs. It will also be necessary to determine the optimum method of operating the various works throughout the Region. The financial implications of present and future programmes will require careful examination as the availability of funds will dictate the rate at which new works can be considered.

4.2 Areas Requiring Attention Early in 1974

The following items are not necessarily in any order of urgency but represent those items which are considered to be in need of Councils' early attention.

4.2.1 City of Hamilton Sewage Treatment Plant

The secondary sewage treatment facilities at this plant are under construction at this time and should be completed by the end of 1973. The flows in the plant are now such that a study should be undertaken in 1974 to establish the timing, method and estimated cost of the next expansion of the treatment plant which was originally scheduled by the City of Hamilton for design in 1976 and for construction in 1977.

4.2.2 East End Sewage Treatment Plant - Town of Stoney Creek

The Ministry of the Environment is presently carrying out a study of a new sewage treatment plant in the east end of Stoney Creek. The Ministry should be asked to continue with this study and to complete it so that the recommendations contained therein can be implemented as soon as possible. The construction of this new treatment facility would eliminate the Gardendale lagoon in the Winona area.

4.2.3 The Town of Dundas Sewage Treatment Plant

A report has now been completed on the expansion of this treatment plant. The recommendations of this report should be reviewed, approved and implemented as soon as possible so that the expansion of the plant can proceed. The Regional Council should consider the question of additional space for the provisions of a sewer maintenance facility when it reviews the expansion of this plant. The treatment plant has been shown as a "Works in Progress" in this study.

4.2.4 The Waterdown Elevated Tank - Township of Flamborough

The Ministry of the Environment has now issued a Preliminery Certificate of Approval for the provision of a new 500,000 gallon elevated tank. An option has been taken on the property for the new tank and the engineering design has been started. The method of financing of this facility should be reviewed early in 1974. This tank will service the former Village of Waterdown and also the adjacent areas of the former Township of East Flamborough.

4.2.5 Waterdown - East Flamborough Water Service Area in the Township of Flamborough

The Ministry of the Environment has carried out a study of the water supply in the Waterdown and East Flamborough area. This study contains recommendations with regard to the extension of the Waterdown water supply into the former Township of East Flamborough.

It is recommended that the report prepared by the Ministry be reviewed as part of the Master Plan for waterworks for the region as noted in Section 4.3.

Due to pollution problems with the wells in the existing Rockcliffe area, just west of Waterdown, immediate consideration should be given to extending water facilities to this area.

4.2.6. Waterdown Sewage Treatment Plant - Township of Flamborough

The former Village of Waterdown has asked the Ministry of the Environment to carry out a study of the expansion of this plant which is now nearing its design capacity.

In view of development pressures in the area to be serviced by this treatment plant, this study should be started as soon as possible.

4.3. Long Range Programmes for Regional Roads, Water, Sewage, Drainage, and Solid Waste Disposal Works

4.3.1. Regional Roads

It is recommended that the Regional Corporation initiate work on the development of a Roads Needs Study.

This study would review the roads assumed by the Regional Corporation, recommend what roads should be added to or deleted from the system and set priorities for the maintenance and construction of these roads.

4.3.2. Water, Sewage and Drainage Works

It is recommended that the Regional Corporation initiate work on the development of Master Plans for waterworks, sewage and drainage works in conjunction with an Official Plan for the region. The engineering components of the Official Plan should be fully integrated with the planning processes involved in the creation of short and long range land use plans so that efficient financial budgeting is achieved for all necessary services. The engineering studies should also include recommendations on the appropriate procedures for the collection of revenues to meet the operating and maintenance costs as well as the debt retirement charges.

Due to the nature of the combined sewer system in the City of Hamilton, it is recommended that the study of the sewage works and drainage works be a joint study.

The Master Plan for sewage works and drainage works should cover all area municipalities and all area municipalities should participate in the cost of the preparation of the plan.

Appropriate Terms of Reference should be prepared for the carrying out of these studies.

4.3.3. Solid Waste Disposal

The Regional Corporation should assume responsibility for the reviewing, approving and implementation of the recommendations contained in the Hamilton-Wentworth Waste Management Study which has been completed for the former County of Wentworth and the City of Hamilton.

This study contains recommendations related to the closing of many of the existing landfill sites in the Region. The Regional Corporation should take the necessary action to close these landfill sites as soon as possible before it becomes necessary for the Ministry of the Environment to take appropriate action to have the sites closed.

The recommendations contained in the Hamilton-Wentworth Waste Management Study should be reviewed in conjunction with the Official Plan for the Region.

4.4. Review of Charges for Water, Sewage, Storm Sewer and Solid Waste Disposal Facilities

4.4.1. Water Rates and Sewage Charges

The Regional Corporation should initiate studies into the cost of financing, operating and maintaining regional water and sewage works. These costs should be used to determine appropriate rates and charges necessary to provide the revenue to meet the cost of the water and sewage facilities.

Appropriate Terms of Reference should be prepared for the carrying out of these studies.

4.4.2. Storm Sewer Charges

The Regional Corporation should initiate a study into the annual costs that should be charged against the City of Hamilton to cover the costs of financing, operating and maintaining the storm sewer works assumed from the City of Hamilton and other storm sewer works that may be constructed by the Regional Corporation for the sole benefit of the City of Hamilton.

4.4.3. Solid Waste Disposal Fees

Fees to be charged to private contractors for the use of the solid waste disposal works should be reviewed in conjunction with, and as an extension of, the Hamilton-Wentworth Waste Management Study.

4.5. Capital Budget

The Regional Corporation should initiate an immediate study into the major remedial and capital works that should be undertaken during the five year period from 1974-1979. This study would form the basis of the five year Capital Budget for regional roads, water, sewage, drainage and solid waste disposal works.

4.6. Existing Information

The Regional Corporation should initiate work on the assembly of all information relative to the work being assumed. This information should include, but not be limited to, the following:

i) Reports

All area municipalities, including the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission, have in their files reports on existing and proposed work. The Regional Corporation should obtain copies of all of these reports so that they can be reviewed

and used to identify problem areas and assist in the preparation of the five year Capital Budget.

ii) Drawings

All area municipalities, including the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission, should have detailed drawings of the work being assumed by the Regional Corporation. The Regional Corporation should obtain copies of these drawings and where no drawings exist the Regional Corporation should initiate work on the preparation of appropriate drawings of the work being assumed.

iii) Property Plans

The Regional Corporation should obtain from the area municipalities, including the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission, copies of the property plans relative to all work being assumed.

Particular study should be given to the area where the property has a joint function for the Regional Corporation and the area municipality, or where the Regional Corporation may only assume the property on a temporary basis then return it to the area municipality as in the case of landfill sites.

iv) Agreements

All area municipalities, including the County of Wentworth and the Hamilton-Wentworth Suburban Roads Commission, have agreements relating to subdivisions, railway crossings, water supply, sewage, drainage,

solid waste disposal, leasing of property, studies, design of work being assumed, contracts for work under construction, etc.

These agreements may be with individuals, companies, area municipalities, railway companies, developers, consulting engineers, Ministry of the Environment, Ministry of Transportation and Communications or other levels of government, etc.

The Regional Corporation should initiate work on the assembly of all of this information so that there is an orderly transfer of the agreements.

4.7 Utilities Co-ordinating Committees

The Regional Corporation should establish a Regional Utilities Co-ordinating Committee (both policy and working) in conjunction with the utility companies in the region. This committee would take over some of the responsibilities of the present Utilities Co-ordinating Committee in the City of Hamilton and extend its responsibility to include the entire region. The area municipalities should establish Area Utilities Co-ordinating Committees with a regional representative as a member.

SECTION 5 - CONCLUSIONS AND ACKNOWLEDGMENTS

5.1 Conclusions

The foregoing report, represents the results of an investigation that has been carried out into the assumption of works relating to regional roads, water supply, sewage, land drainage and solid waste disposal that can be considered a Regional responsibility in accordance with Bill 155 and in addition presents recommendations with regard to the assumption of storm sewers in the City of Hamilton. It also presents recommendations with regard to organising for, and the operation of, such works including the necessary financing.

It is not intended to be complete and detailed with regard to the various works that are to be assumed. The Commissioner of Engineering should continue to add to the data presented in this report so that the Regional Corporation has a complete and accurate record of all works under its jurisdiction.

The system of operating and the financing should be throughly reviewed and revised in the light of the first year of experience to ensure that services remain adequate and equitable. Provision for orderly and planned expansion of the facilities will be necessary to ensure this end.

5.2 Acknowledgement

We wish to thank Mrs. A. H. Jones, Chairman, The Regional Municipality of Hamilton-Wentworth, the Clerks, Treasurer, Engineers and other technical staff of the area municipalities and the staff of the Provincial Government for their assistance in the preparation of this report.

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